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Webpage Publication Date	Product Name	Model Name	Country
2024.04	Galaxy M15 5G	SM-M156B	ТК
2024.02	Galaxy XCover7	SM-G556B	EU
2024.02	Galaxy S24 Ultra	SM-S928B	EU
2024.02	Galaxy S24 Ultra	SM-S928U	US
2024.02	Galaxy S24+	SM-S926B	EU
2024.02	Galaxy S24+	SM-S926U	US
2024.02	Galaxy S24	SM-S921B	EU
2024.02	Galaxy S24	SM-S921U	US
2024.02	Galaxy A25 5G	SM-A256B	EU
2024.02	Galaxy A25 5G	SM-A256U	US
2024.02	Galaxy A15	SM-A155E	SEA
2024.02	Galaxy A15 5G	SM-A156U	US
2024.02	Galaxy A15 5G	SM-A156E	SEA

Galaxy XCover7       SM-G556B       EU         Galaxy XCover7       SM-G556B       EU         Galaxy S24 Ultra       SM-S928B       EU         Galaxy S24       SM-S926B       EU         Galaxy S24       SM-S926B       EU         Galaxy S24       SM-S921B       EU         Galaxy S24       SM-S921B       EU         Galaxy S24       SM-S921B       EU         Galaxy A25 5G       SM-A256B       EU         Galaxy A25 5G       SM-A256B       EU         Galaxy A25 5G       SM-A256U       US         Galaxy A15       SM-A155E       SEA         Galaxy A15       SM-A156U       US         Galaxy A15       SM-A156E       SEA         Galaxy A15       SM-A156E       SEA         Galaxy A15       SM-S711B       EU         Galaxy A23       SM-A256I       Galaxy A23         Galaxy Z1Fip5       SM-F731B       EU         Galaxy Z Fold5       SM-F946B </th <th></th> <th></th> <th></th>			
Galaxy XCover7         SM-M3265         EU         Galaxy A24         SM-A245F           Galaxy S24 Ultra         SM-6556B         EU         Galaxy A24         SM-A245F           Galaxy S24 Ultra         SM-5928B         EU         Galaxy A23 5G         SM-A246V           Galaxy S24 Ultra         SM-5928U         US         Galaxy A23 5G         SM-A236V           Galaxy S24         SM-5926B         EU         Galaxy S23 Ultra         SM-5918B           Galaxy S24         SM-5921B         EU         Galaxy S23 Ultra         SM-5916B           Galaxy S24         SM-5921B         EU         Galaxy S23 SM-5916B         Galaxy S23         SM-5916B           Galaxy S24         SM-5921U         US         Galaxy S23         SM-5916U         Galaxy S23         SM-5911B           Galaxy A25 5G         SM-A256U         US         Galaxy S23         SM-5911U         Galaxy A25 SG         SM-6736U           Galaxy A15         SM-A156U         US         Galaxy Z Fold4         SM-7326U           Galaxy A15 5G         SM-A156U         US         Galaxy Cover6 Pro         SM-6736U           Galaxy A15 5G         SM-A156E         SEA         Galaxy A13         SM-A235F           Galaxy A15 5G         SM-711B	Product Name	Model Name	Country
Galaxy Coter         SM-GS30B         EU           Galaxy S24 Ultra         SM-S928B         EU           Galaxy S24 Ultra         SM-S928U         US           Galaxy S24         SM-S928B         EU           Galaxy S24         SM-S928B         EU           Galaxy S24         SM-S926B         EU           Galaxy S24         SM-S926B         EU           Galaxy S24         SM-S926B         EU           Galaxy S24         SM-S921B         EU           Galaxy S24         SM-S921B         EU           Galaxy A25 SG         SM-A256B         EU           Galaxy A15         SM-A256B         EU           Galaxy A25 SG         SM-A256U         US           Galaxy A15         SM-A256U         US           Galaxy A15         SM-A155E         SEA           Galaxy A15 SG         SM-A156U         US           Galaxy A15 SG         SM-A156E         SEA           Galaxy A14         SM-A145F           Galaxy A15 SG         SM-A145F     <	Galaxy M15 5G	SM-M156B	ТК
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Galaxy S24 Ultra         SM-S928U         US         Galaxy A23 5G         SM-A236V           Galaxy S24+         SM-S926B         EU         Galaxy S23 Ultra         SM-S918B           Galaxy S24+         SM-S926U         US         Galaxy S23 Ultra         SM-S918B           Galaxy S24         SM-S926U         US         Galaxy S23 Ultra         SM-S918B           Galaxy S24         SM-S921U         US         Galaxy S23 SM-S911B         Galaxy S23 SM-S911B           Galaxy A25 SG         SM-A256B         EU         Galaxy S23         SM-S911B           Galaxy A25 SG         SM-A256U         US         Galaxy Z7 Fold4         SM-S911U           Galaxy A15         SM-A155E         SEA         Galaxy Z7 Fold4         SM-F731U           Galaxy A15 SG         SM-A156E         SEA         Galaxy A13 SG         SM-A736B           Galaxy A15 SG         SM-A156E         SEA         Galaxy A13 SG         SM-A736B           Galaxy A15 SG         SM-A156E         SEA         Galaxy A13 SG         SM-A736B           Galaxy A15 SG         SM-M446K         KOR         Galaxy A13 SG         SM-A736B           Galaxy S23 FE         SM-S711B         EU         Galaxy M13 SG         SM-M336B           Galaxy Z Fli	Galaxy S24 Ultra	SM-S928B	EU
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Galaxy A54 5G         SM-A546U         US         Z Flip3         SM-F711B           Galaxy A54 5G         SM-A546B         EU         A12         SM-A127F	Galaxy M14 5G	SM-M146B	UAE
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# Life Cycle Assessment for Galaxy M15 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006	
Database	Ecoinvent 3.9.1	
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool	
LCA software	SimaPro 9.5.0.0	

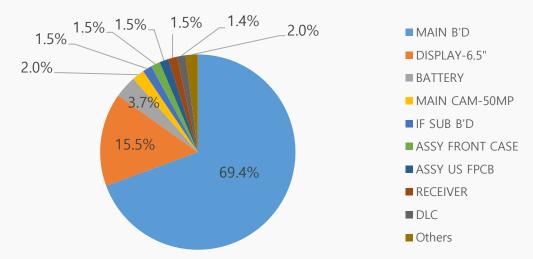
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation	
Manufacturing	Product assembly by Samsung Electronics	
Distribution	From Vietnam and India to Turkiye	
Use	3 years use	
Disposal	Waste treatment of parts and material	



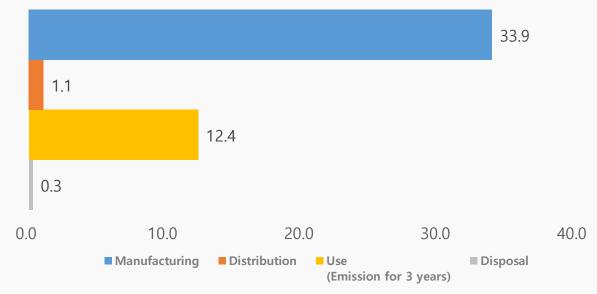
Model name Galaxy M15 5G	
Dimension	160.1 x 76.8 x 9.3mm
Display	OLED 6.5"
Weight	Product&Acc.:236.88 g Packages : 89.77 g

# Global Warming Impact Profile

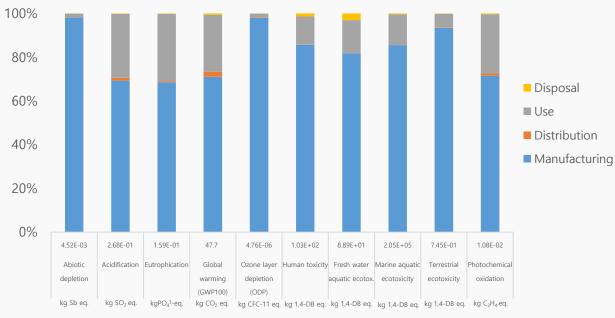


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy XCover7

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006	
Database	Ecoinvent 3.9.1	
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool	
LCA software	SimaPro 9.5.0.0	

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation	
Manufacturing	Product assembly by Samsung Electronics	
Distribution	From Vietnam to EU	
Use	3 years use	
Disposal	Waste treatment of parts and material	



kg Sb eq.

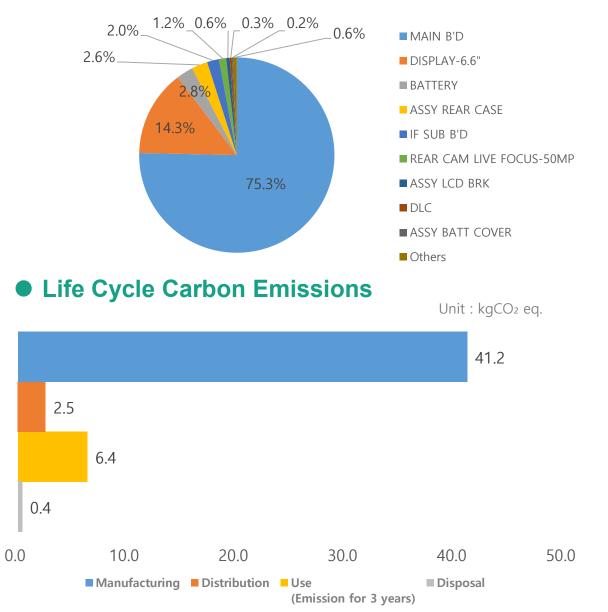
kg SO<sub>2</sub> eq. kgPO<sub>4</sub><sup>3</sup>-eq. kg CO<sub>2</sub> eq.

Model name	SM-G556B(Galaxy XCover7)	
Dimension	169.0 x 80.1 x 10.2 mm	
Display	LCD 6.6"	
Weight	Product&Acc.:261.75 g Packages :114.76 g	

kg CFC-11 eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg C<sub>2</sub>H<sub>4</sub> eq.

#### **Characterized Environment Impact** 100% 80% Disposal 60% Use Distribution 40% Manufacturing 20% 0% 3.42E-03 2.32E-01 1.37E-01 50.4 6.32E-06 9.35E+01 7.41E+01 1.87E+05 7.71E-01 9.85E-03 Abiotic Acidification Eutrophication Global Human toxicity Fresh water Marine aquatic Terrestrial Photochemical Ozone layer depletion warming depletion aquatic ecotox. ecotoxicity ecotoxicity oxidation (GWP100) (ODP)

### Global Warming Impact Profile



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S24 Ultra

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006	
Database	Ecoinvent 3.9.1	
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool	
LCA software	SimaPro 9.5.0.0	

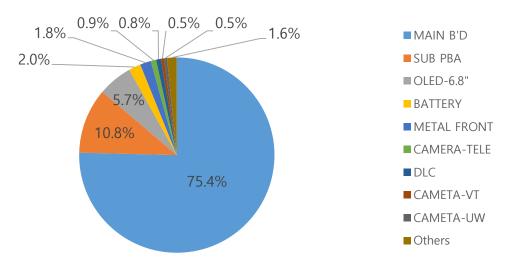
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation	
Manufacturing	Product assembly by Samsung Electronics	
Distribution	From Vietnam to EU	
Use	3 years use	
Disposal	Waste treatment of parts and material	



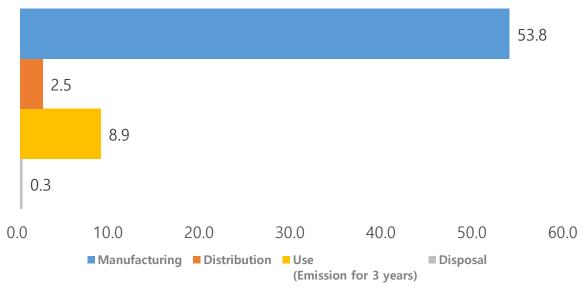
Model name	SM-S928B(Galaxy S24 Ultra)
Dimension	162.3 x 79 x 8.6 mm
Display	OLED 6.8"
Weight	Product&Acc. : 253.41 g Packages : 124.63 g

# Global Warming Impact Profile

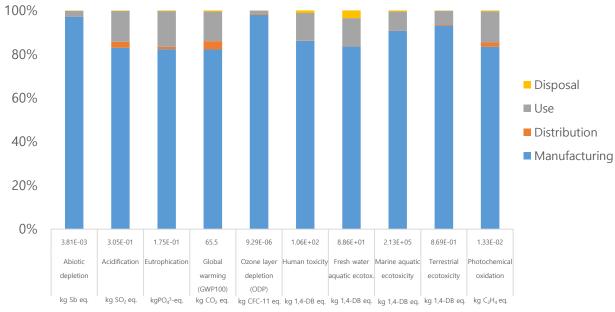


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy S24 Ultra

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006	
Database	Ecoinvent 3.9.1	
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool	
LCA software	SimaPro 9.5.0.0	

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation	
Manufacturing	Product assembly by Samsung Electronics	
Distribution	From Vietnam to US	
Use	3 years use	
Disposal	Waste treatment of parts and material	

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

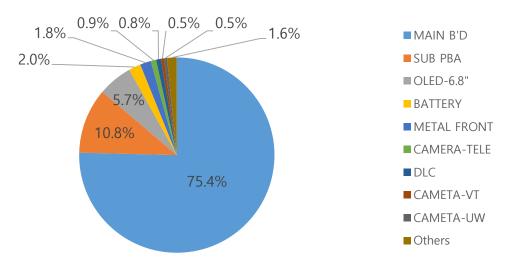
LCA Report Issuance Date : Feb 16, 2024

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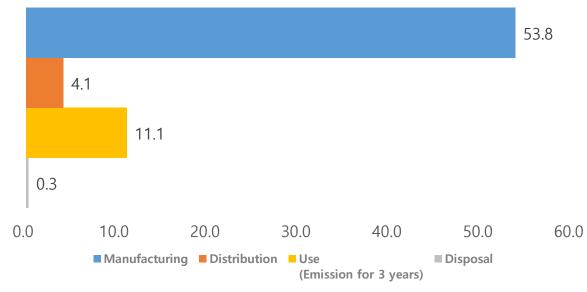
Model name	SM-S928U(Galaxy S24 Ultra)
Dimension	162.3 x 79 x 8.6 mm
Display	OLED 6.8"
Weight	Product&Acc.:253.41 g Packages :124.63 g

# • Global Warming Impact Profile

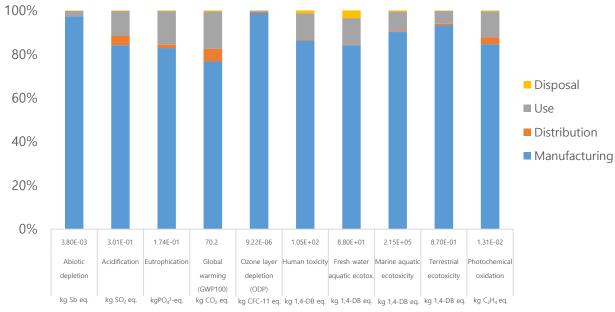


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy S24+

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006	
Database	Ecoinvent 3.9.1	
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool	
LCA software	SimaPro 9.5.0.0	

# • System boundary of LCA

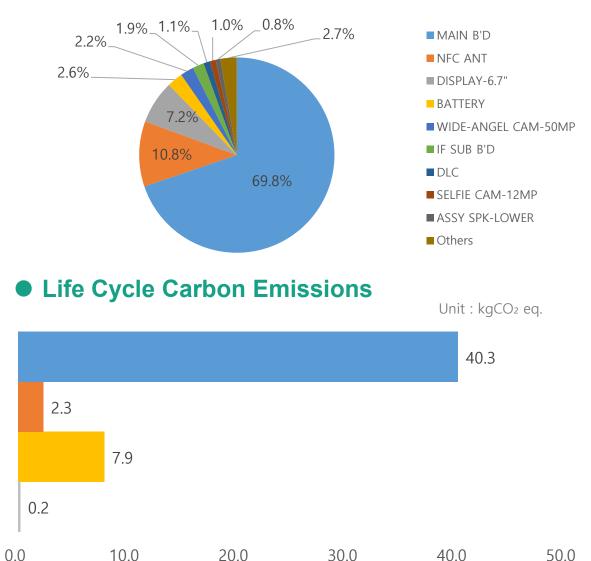
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

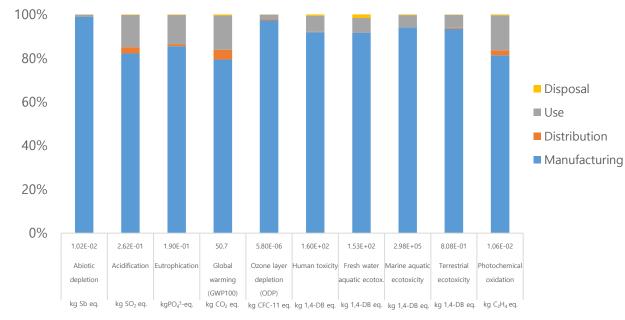


Model name	SM-S926B(Galaxy S24+)
Dimension	158.5 x 75.9 x 7.7 mm
Display	OLED 6.7"
Weight	Product&Acc. : 215.42 g Packages : 124.05 g

### • Global Warming Impact Profile

■ Manufacturing ■ Distribution ■ Use





Characterized Environment Impact

\* The results differ from to region, But not by much.

(Emission for 3 years)

Disposal

# Life Cycle Assessment for Galaxy S24+

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006	
Database	Ecoinvent 3.9.1	
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool	
LCA software	SimaPro 9.5.0.0	

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation	
Manufacturing	Product assembly by Samsung Electronics	
Distribution	From Vietnam to US	
Use	3 years use	
Disposal	Waste treatment of parts and material	

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

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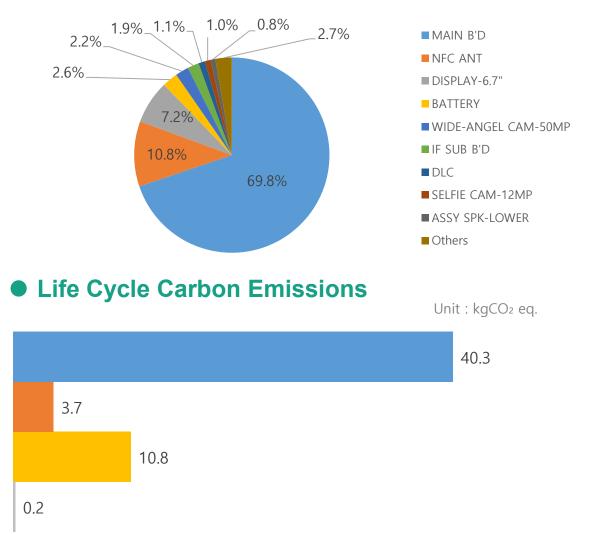


Model name	SM-S926U(Galaxy S24+)
Dimension	158.5 x 75.9 x 7.7 mm
Display	OLED 6.7"
Weight	Product&Acc. : 215.42 g Packages : 124.05 g

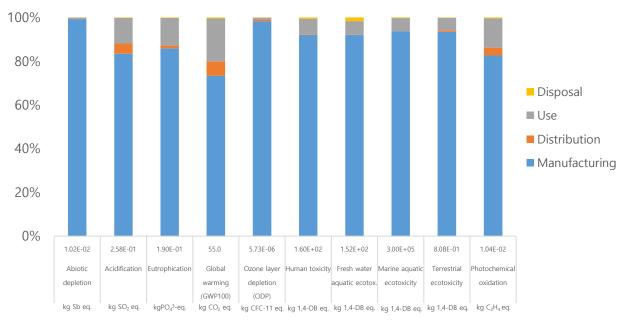
# • Global Warming Impact Profile

0.0

10.0



Characterized Environment Impact



Manufacturing
 Distribution
 Use
 Disposal
 (Emission for 3 years)

30.0

20.0

\* The results differ from to region, But not by much.

40.0

50.0

# Life Cycle Assessment for Galaxy S24

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006	
Database	Ecoinvent 3.9.1	
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool	
LCA software	SimaPro 9.5.0.0	

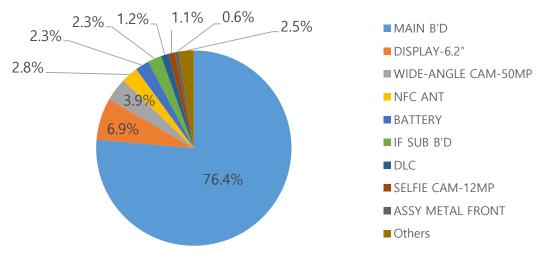
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation	
Manufacturing	Product assembly by Samsung Electronics	
Distribution	From Vietnam to EU	
Use	3 years use	
Disposal	Waste treatment of parts and material	



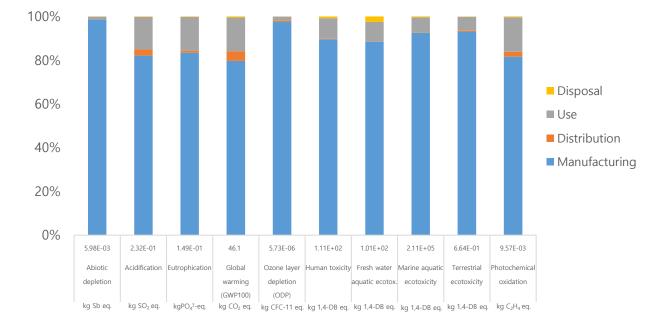
Model name	SM-S921B(Galaxy S24)
Dimension	147.0 x 70.6 x 7.6 mm
Display	OLED 6.2"
Weight	Product&Acc. : 186.42 g Packages : 118.64 g

# • Global Warming Impact Profile

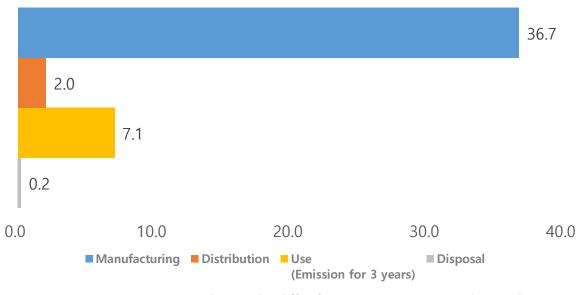


# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.



Characterized Environment Impact



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S24

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006	
Database	Ecoinvent 3.9.1	
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool	
LCA software	SimaPro 9.5.0.0	

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

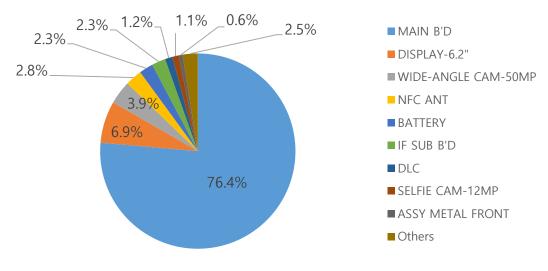
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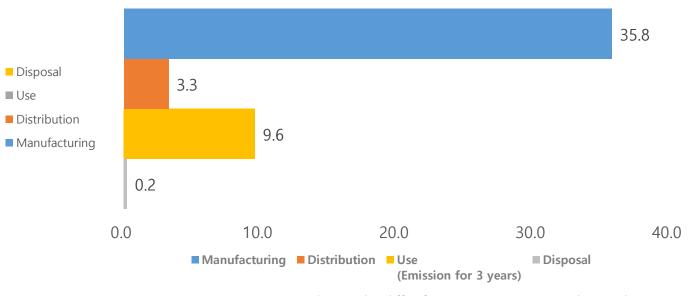
Model name	SM-S921U(Galaxy S24)
Dimension	147.0 x 70.6 x 7.6mm
Display	OLED 6.2"
Weight	Product&Acc. : 186.42 g Packages : 118.88 g

# • Global Warming Impact Profile

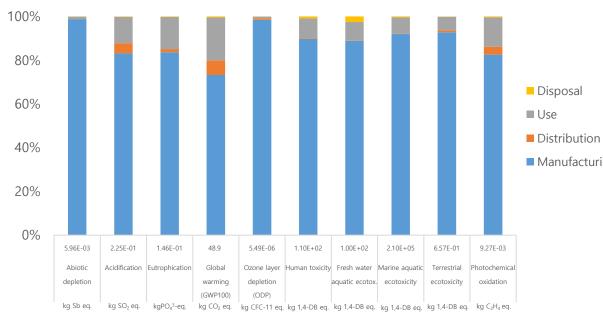


# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.



# Characterized Environment Impact



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A25 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

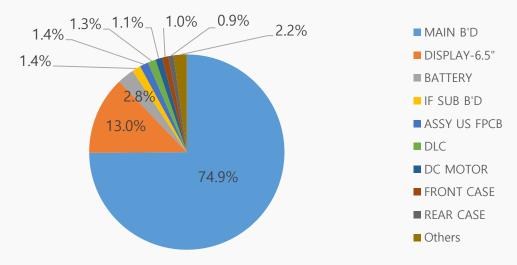
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material



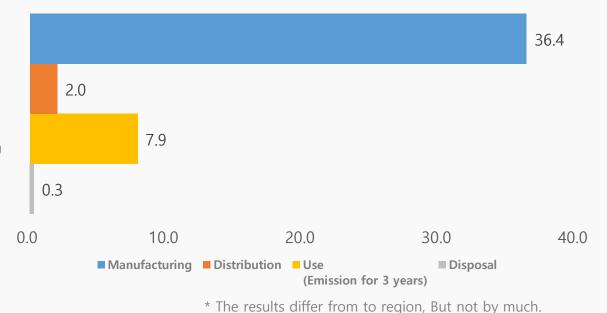
Model name	SM-A256B(Galaxy A25 5G)
Dimension	161.0 x 76.5 x 8.3 mm
Display	OLED 6.5"
Weight	Product&Acc. : 216.88 g Packages : 77.29 g

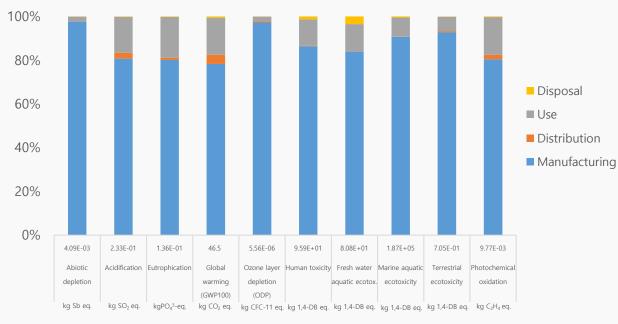
### • Global Warming Impact Profile



# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.





# Life Cycle Assessment for Galaxy A25 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

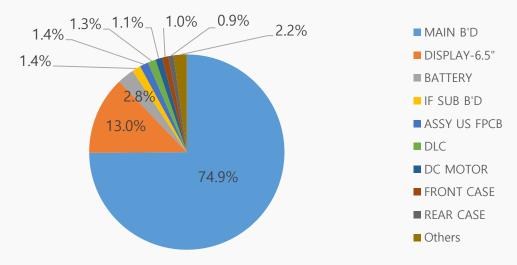
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material



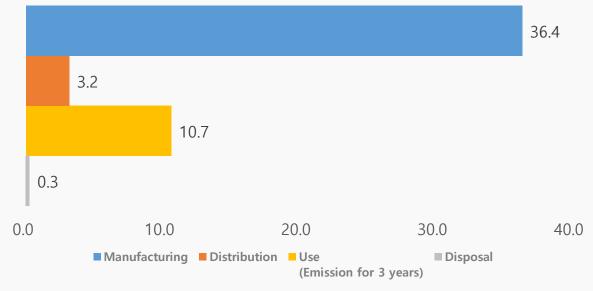
Model name	SM-A256U(Galaxy A25 5G)
Dimension	161.0 x 76.5 x 8.3 mm
Display	OLED 6.5"
Weight	Product&Acc. : 216.88 g Packages : 77.29 g

### • Global Warming Impact Profile

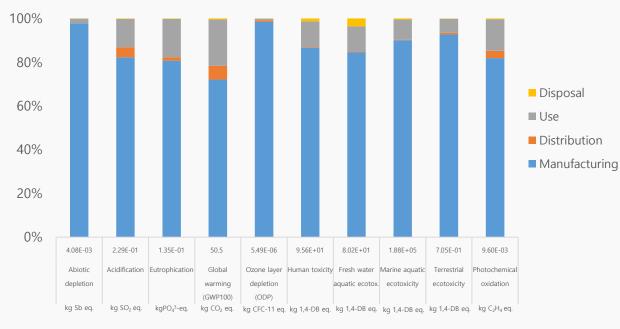


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



# Characterized Environment Impact



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A15

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Lifecycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

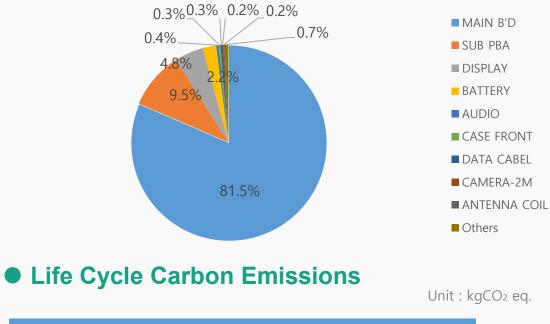
# • System boundary of LCA

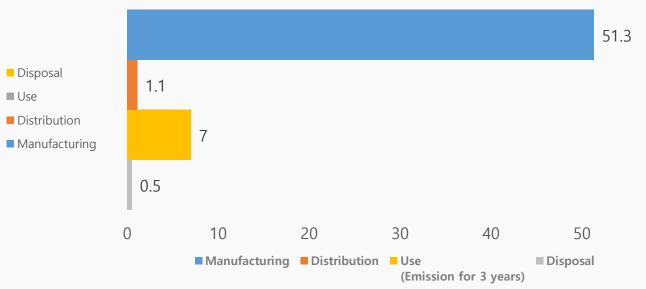
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to SEA
Use	3 years use
Disposal	Waste treatment of parts and material



Model name	SM-A155E(Galaxy A15)
Dimension	160.1 x 76.8 x 8.4 mm
Display	6.5" AMOLED 2X
Weight	Product&Acc. : 222.06 g Packages : 91.7 g

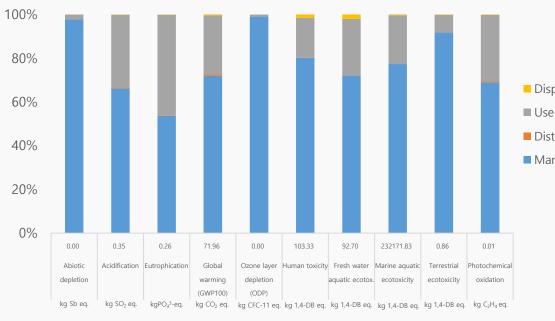
# • Global Warming Impact Profile





\* The results differ from to region, But not by much.

60



# Life Cycle Assessment for Galaxy A15 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Lifecycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

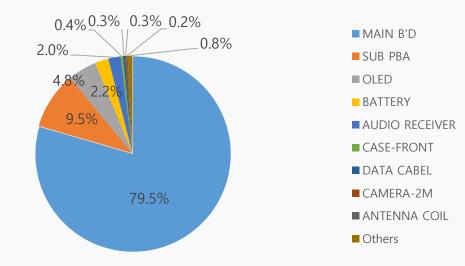
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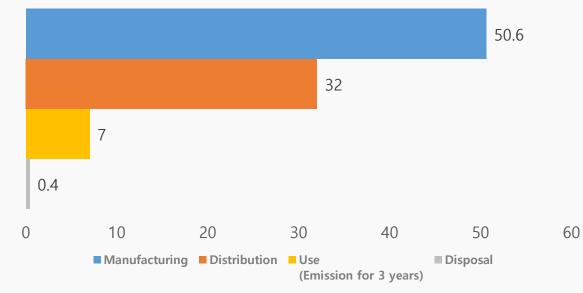
Model name	SM-A156U(Galaxy A15 5G)
Dimension	160.1 x 76.8 x 8.4 mm
Display	6.5" AMOLED 2X
Weight	Product&Acc. : 222.06 g Packages : 56.4 g

# • Global Warming Impact Profile

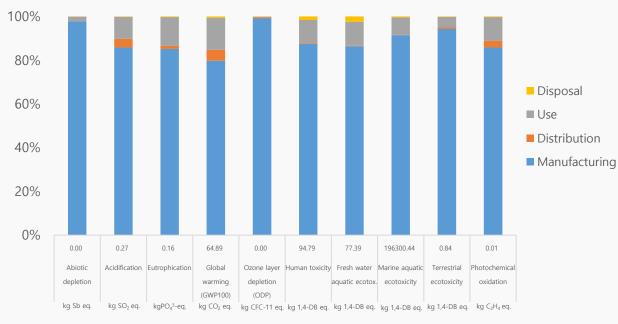


# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.



# Characterized Environment Impact



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A15 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Lifecycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

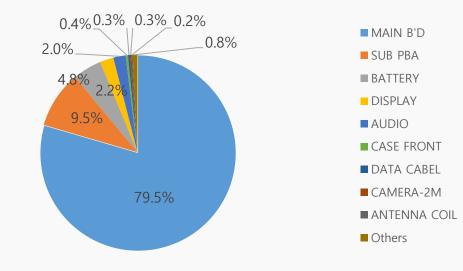
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to SEA
Use	3 years use
Disposal	Waste treatment of parts and material



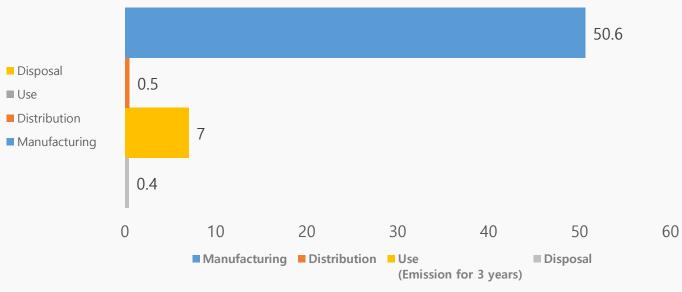
Model name	SM-A156E(Galaxy A15 5G)
Dimension	160.1 x 76.8 x 8.4 mm
Display	6.5" AMOLED 2X
Weight	Product&Acc. : 222.06 g Packages : 91.7 g

# • Global Warming Impact Profile

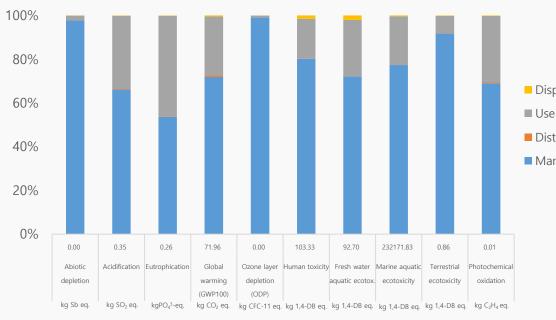


# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy M34 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

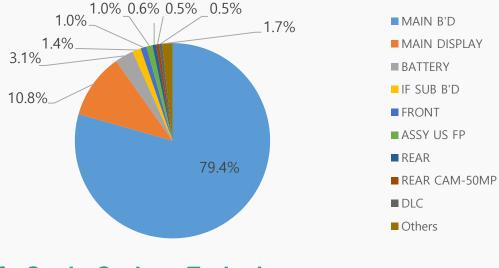
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From India to India
Use	3 years use
Disposal	Waste treatment of parts and material



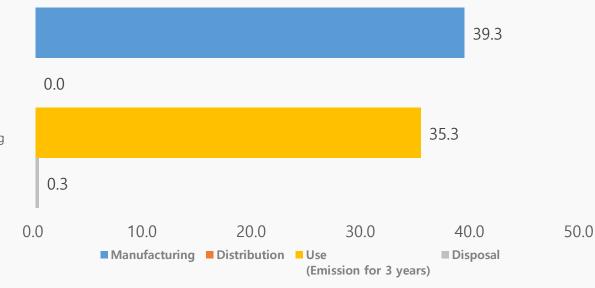
Model name	SM-M346B(Galaxy M34 5G)
Dimension	161.7 x 77.2 x 8.8 mm
Display	OLED 6.5"
Weight	Product&Acc. : 229.16 g Packages : 96.92g

# Global Warming Impact Profile

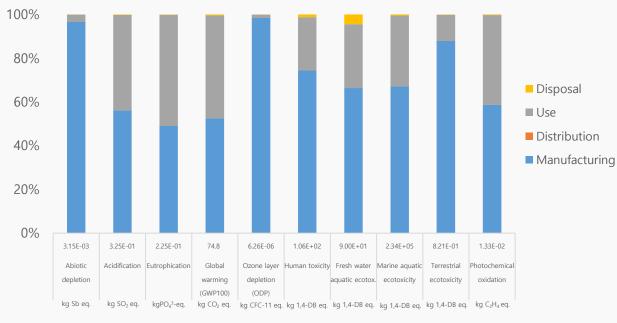


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



# Characterized Environment Impact



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy M44 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

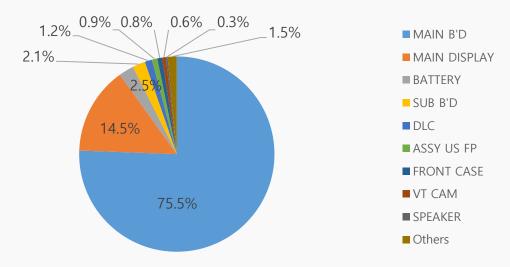
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to KOR
Use	3 years use
Disposal	Waste treatment of parts and material



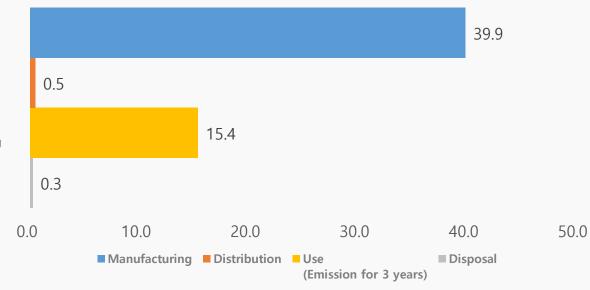
Model name	SM-M446K(Galaxy M44 5G)
Dimension	167.7 x 78.0 x 9.1 mm
Display	FHD+ 6.6"
Weight	Product&Acc.:235.95 g Packages :102.19 g

### Global Warming Impact Profile



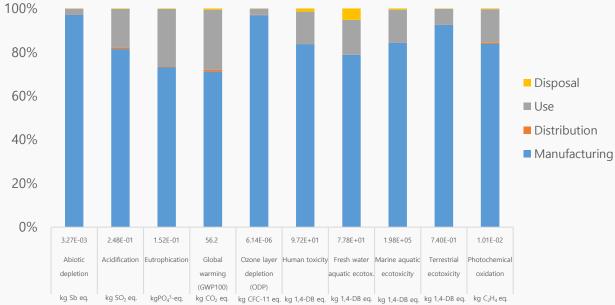
# • Life Cycle Carbon Emissions

Unit : kgCO<sub>2</sub> eq.



#### Disposal Use

\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy S23 FE

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

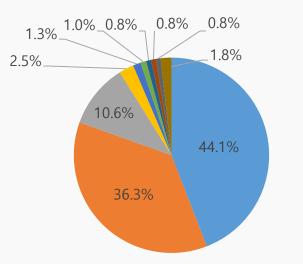
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material



Model name	SM-S711B(Galaxy S23 FE)
Dimension	158.0 x 76.5 x 8.2 mm
Display	OLED 6.4"
Weight	Product&Acc. : 228.99 g Packages : 116.54 g

# • Global Warming Impact Profile

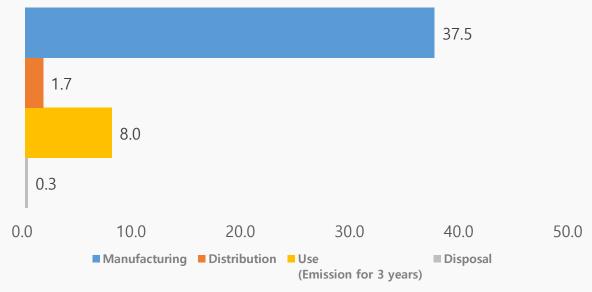


MAIN B'D
SECONDARY B'D
OLED-6.4"
BATTERY
FRONT CAM
TELEPHOTE CAM-8M
IF SUB B'D
METAL FRONT UNIT
WIDE CAM-50M

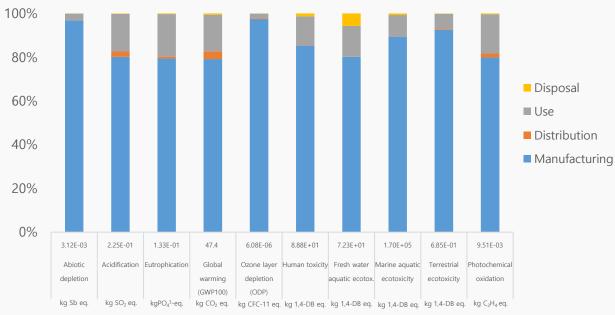
# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.

Others



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy S23 FE

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

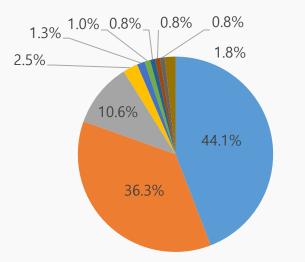
LCA Report Issuance Date : Nov 30, 2023

Webpage Publication Date of Summary of LCA : Nov 30, 2023



Model name	SM-S711U(Galaxy S23 FE)
Dimension	158.0 x 76.5 x 8.2mm
Display	OLED 6.4"
Weight	Product&Acc.: 228.99 g Packages : 116.54 g

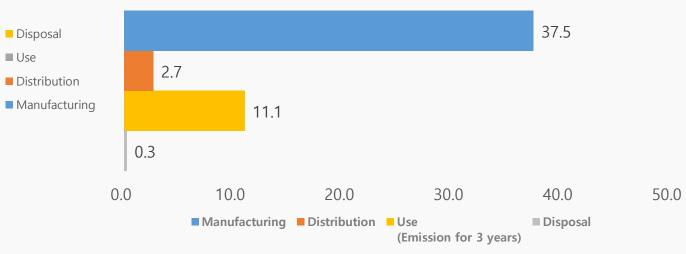
# • Global Warming Impact Profile



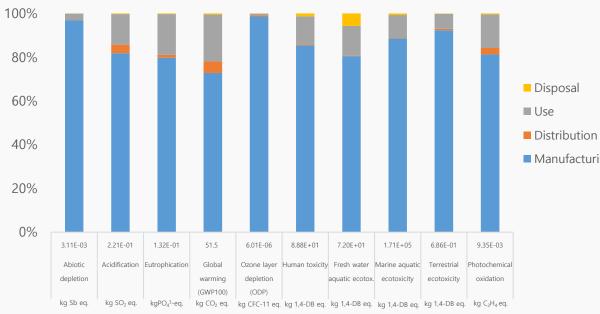
MAIN B'D
SECONDARY B'D
OLED-6.4"
BATTERY
FRONT CAM
TELEPHOTE CAM-8M
IF SUB B'D
METAL FRONT UNIT
WIDE CAM-50M
Others

# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy Z Flip5

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

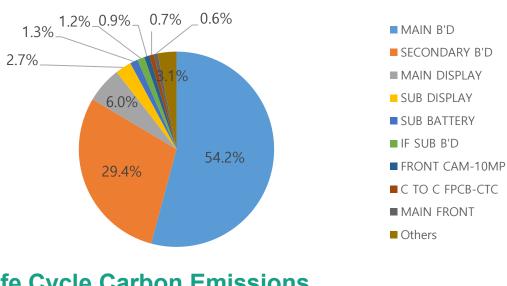
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material



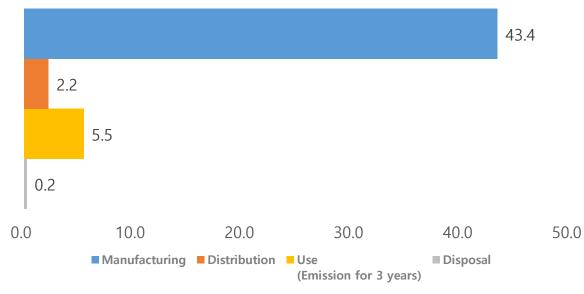
Model name	SM-F731B(Galaxy Z Flip5)
Dimension	165.1 x 71.9 x 6.9 mm
Display	OLED 6.7" / 3.4"
Weight	Product&Acc. : 206.99 g Packages : 126.60 g

#### • Global Warming Impact Profile

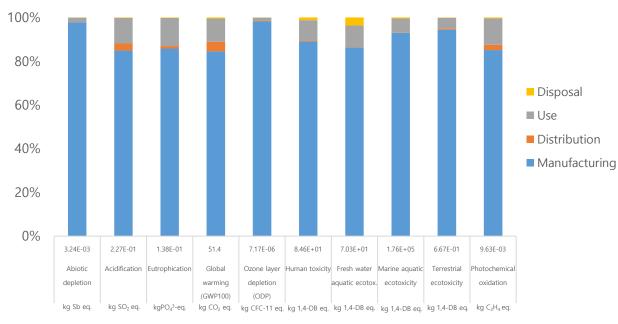


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



# Characterized Environment Impact



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Flip5

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

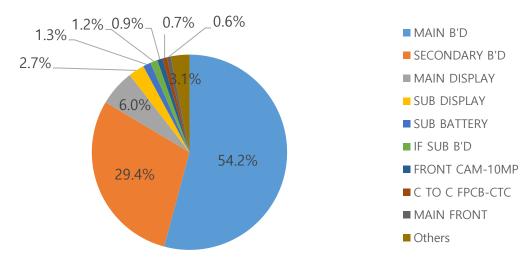
LCA Report Issuance Date : Sep 30, 2023

Webpage Publication Date of Summary of LCA : Sep 30, 2023



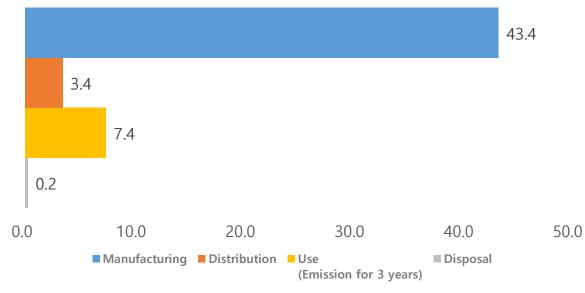
Model name	SM-F731U(Galaxy Z Flip5)
Dimension	165.1 x 71.9 x 6.9 mm
Display	OLED 6.7" / 3.4"
Weight	Product&Acc. : 206.99 g Packages : 126.60 g

#### Global Warming Impact Profile

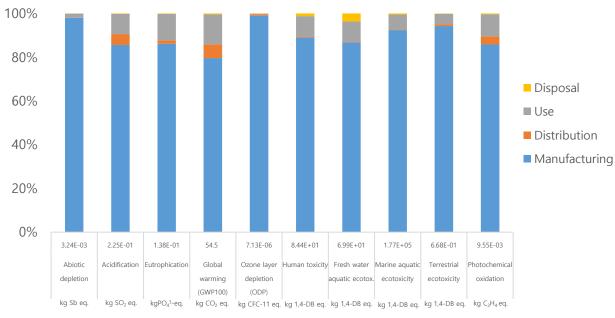


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy Z Fold5

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

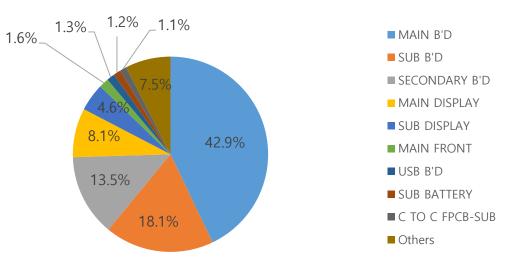
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material



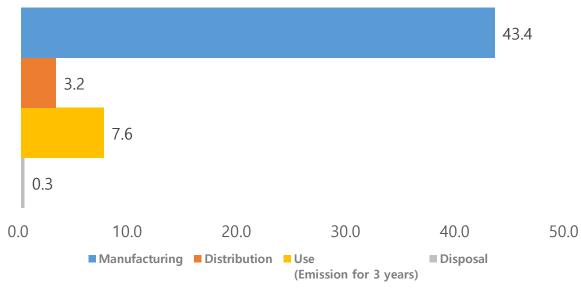
Model name	SM-F946B(Galaxy Z Fold5)
Dimension	154.9 x 129.9 x 6.1 mm
Display	OLED 7.6" / 6.2"
Weight	Product&Acc.:272.99 g Packages :206.99 g

# • Global Warming Impact Profile

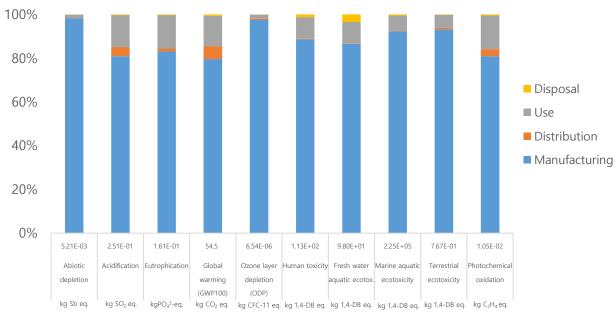


# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.



#### \* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy Z Fold5

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

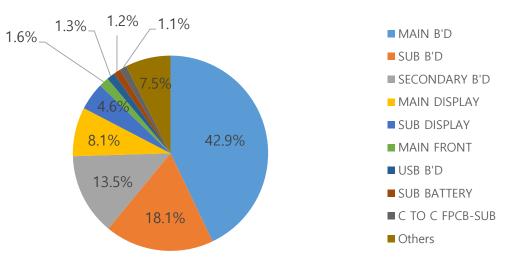
LCA Report Issuance Date : Sep 30, 2023

Webpage Publication Date of Summary of LCA : Sep 30, 2023



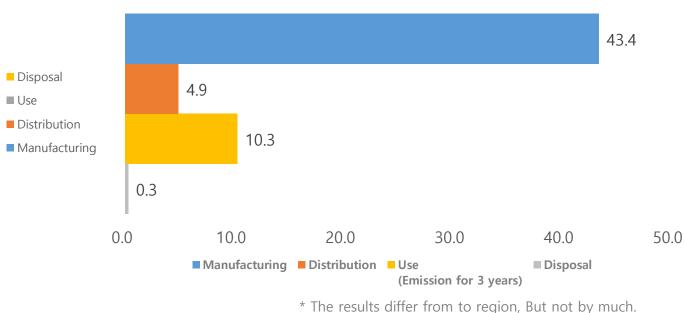
Model name	SM-F946U(Galaxy Z Fold5)
Dimension	154.9 x 129.9 x 6.1 mm
Display	OLED 7.6" / 6.2"
Weight	Product&Acc. : 272.99 g Packages : 206.99 g

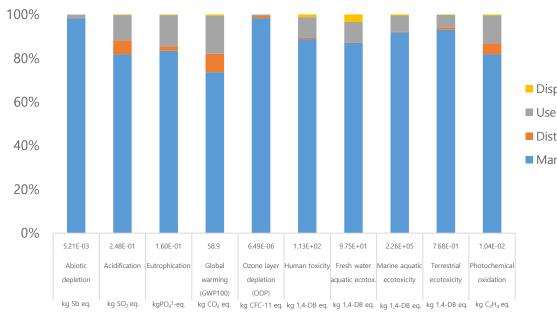
# • Global Warming Impact Profile



# • Life Cycle Carbon Emissions

Unit : kgCO2 eq.





# Life Cycle Assessment for Galaxy M54 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

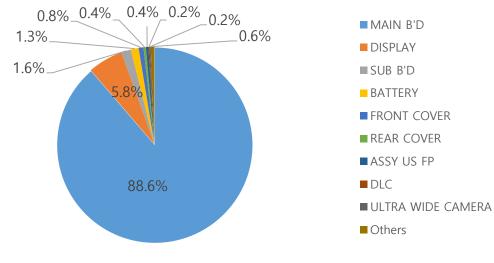
Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

# • System boundary of LCA

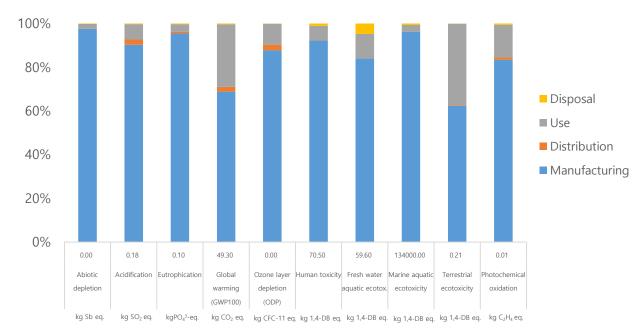
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UAE
Use	3 years use
Disposal	Waste treatment of parts and material

•	Model name	SM-M546B(Galaxy M54 5G)
•	Dimension	164.9 x 77.3 x 8.4 mm
	Display	6.7" OLED
204110	Weight	Product&Acc.:220.18 g Packages :111.33 g

#### • Global Warming Impact Profile

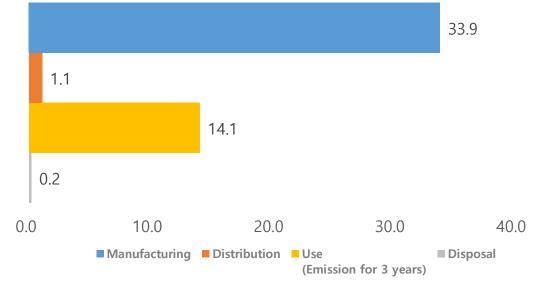


# Characterized Environment Impact



• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy M14 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

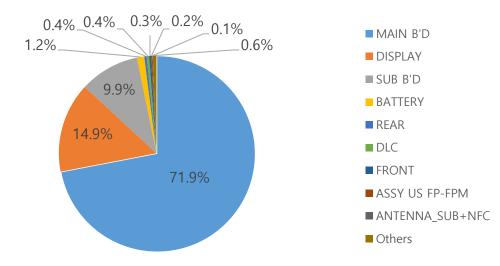
Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UAE
Use	3 years use
Disposal	Waste treatment of parts and material

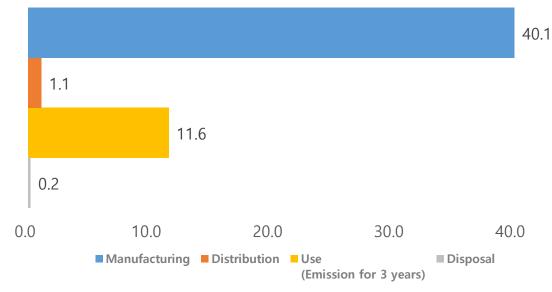
	Model name	SM-M146B(Galaxy M14 5G)
•	Dimension	166.8 x 77.2 x 9.4 mm
	Display	6.6" OLED
SAMSUND	Weight	Product&Acc.:226.52 g Packages :71.85 g

#### Global Warming Impact Profile

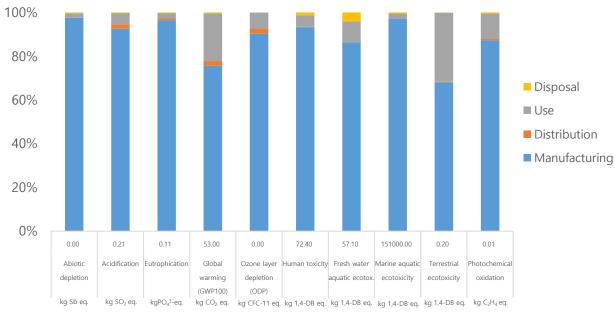


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy A54 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

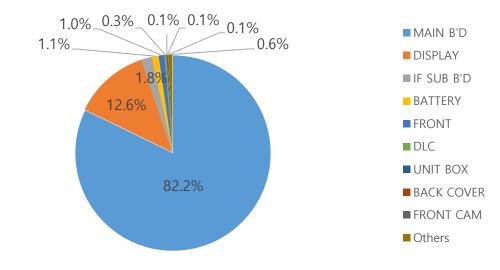
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

LCA Report Issuance Date : Mar 30, 2023

Webpage Publication Date of Summary of LCA : Mar 30, 2023

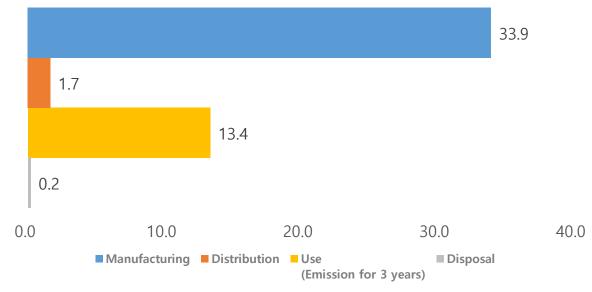
	Model name	SM-A546U(Galaxy A54 5G)
	Dimension	158.2 x 76.7 x 8.2 mm
	Display	6.4" OLED
SAMEUR	Weight	Product&Acc. : 223.42 g Packages : 108.72 g

#### • Global Warming Impact Profile

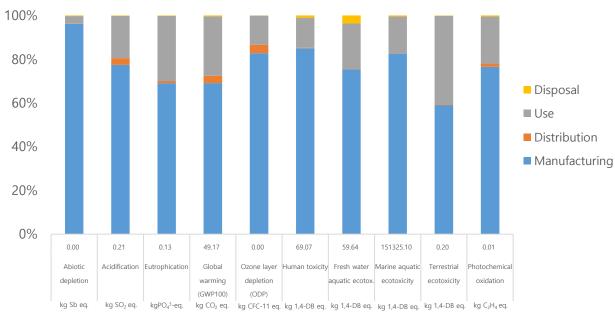


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy A54 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

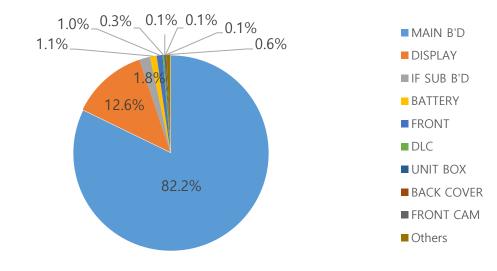
Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

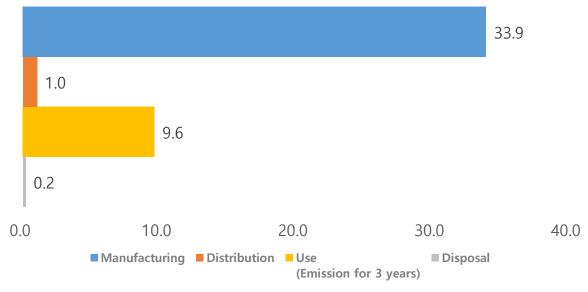
	Model name	SM-A546B(Galaxy A54 5G)
•	Dimension	158.2 x 76.7 x 8.2 mm
	Display	6.4" OLED
SAMSUN	Weight	Product&Acc. : 223.42 g Packages : 108.72 g

#### • Global Warming Impact Profile

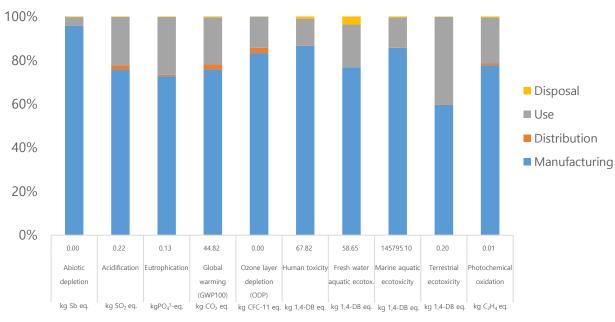


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.



# Life Cycle Assessment for Galaxy A34 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

100%

80%

60%

40%

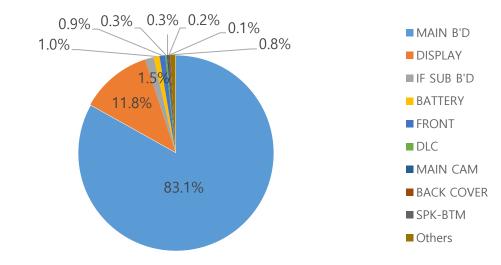
20%

0%



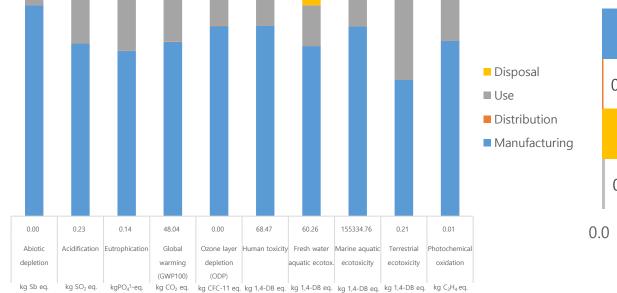
Model name	SM-A346B(Galaxy A34 5G)
Dimension	161.3 x 78.1 x 8.2 mm
Display	6.6" OLED
Weight	Product&Acc. : 220.42 g Packages : 106.95 g

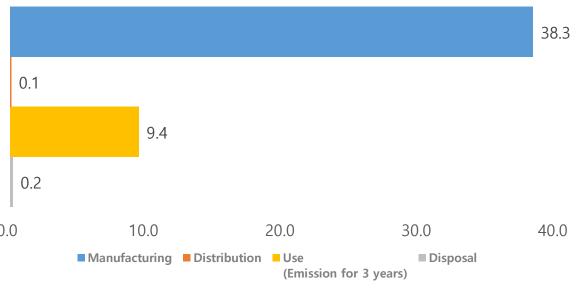
# • Global Warming Impact Profile



• Life Cycle Carbon Emissions

Unit : kgCO2 eq.





\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A24

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UAE
Use	3 years use
Disposal	Waste treatment of parts and material



100%

80%

60%

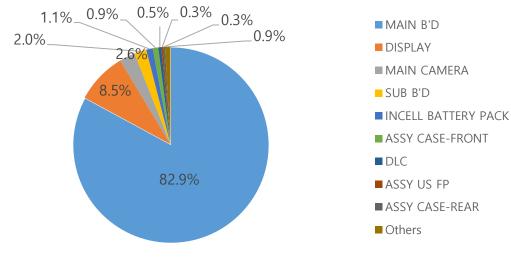
40%

20%

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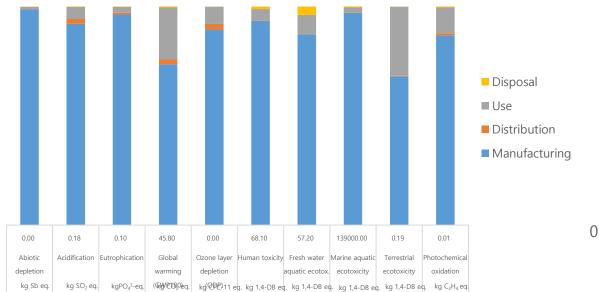
Model name	SM-A245F(Galaxy A24)
Dimension	162.1 x 77.6 x 8.3 mm
Display	6.5" OLED
Weight	Product&Acc.:217.06 g Packages :66.84 g

# • Global Warming Impact Profile

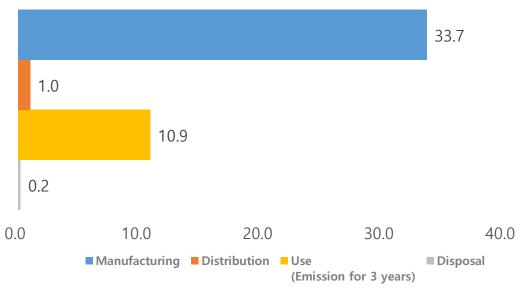


• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



Characterized Environment Impact



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A14

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

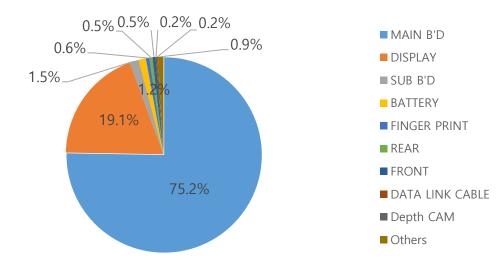
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material



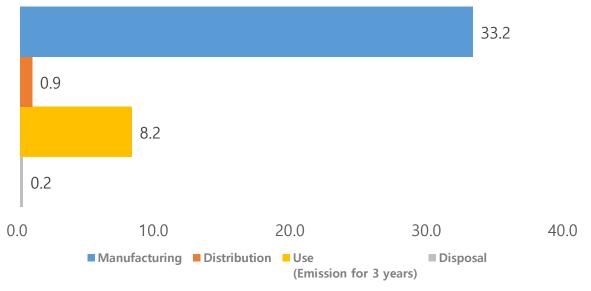
#### Characterized Environment Impact 100% 80% Disposal 60% Use Distribution 40% Manufacturing 20% 0% 0.37 0.23 0.14 51.40 0.00 87.70 59.80 83500.00 0.29 0.01 Abiotic Acidification Eutrophication Global Human toxicity Fresh water Marine aquatic Terrestrial Photochemical Ozone layer depletion depletion warming aquatic ecotox. ecotoxicity ecotoxicity oxidation (GWP100) (ODP) kg Sb eq. kg SO<sub>2</sub> eq. kgPO<sub>4</sub><sup>3</sup>-eq. kg CO<sub>2</sub> eq. kg CFC-11 eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg C<sub>2</sub>H<sub>4</sub> eq.

# Global Warming Impact Profile



• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A23 5G

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

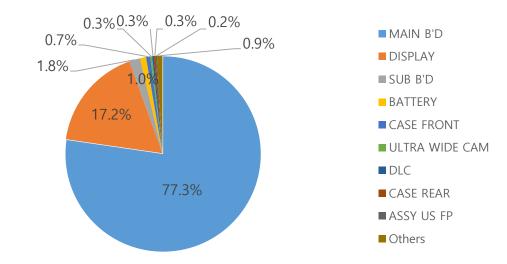
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

LCA Report Issuance Date : Nov 30, 2022

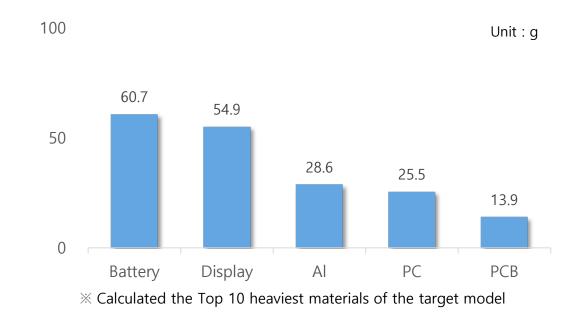
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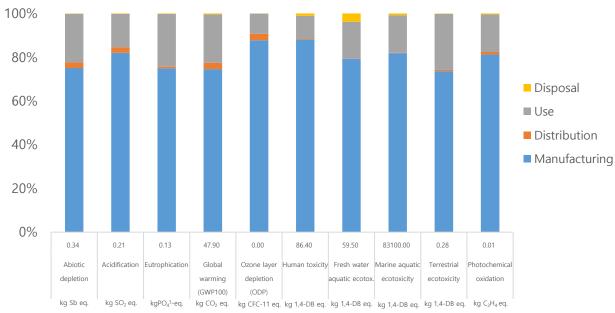


#### • Global Warming Impact Profile



# • Top 5 Substances of Target model





# Life Cycle Assessment for Galaxy S23 Ultra

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

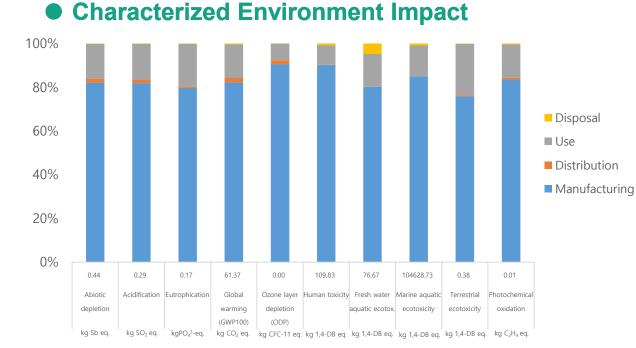
#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

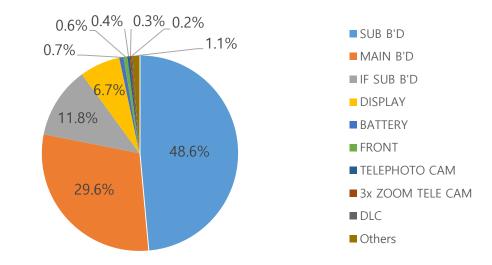
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material

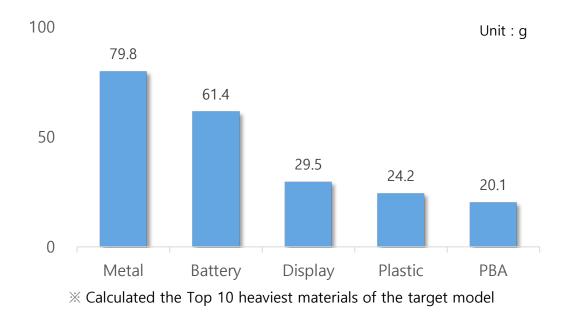




# Global Warming Impact Profile



• Top 5 Substances of Target model



# Life Cycle Assessment for Galaxy S23 Ultra

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

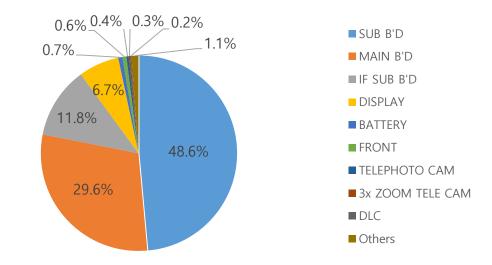
LCA Report Issuance Date : Feb 28, 2023

Webpage Publication Date of Summary of LCA : Feb 28, 2023

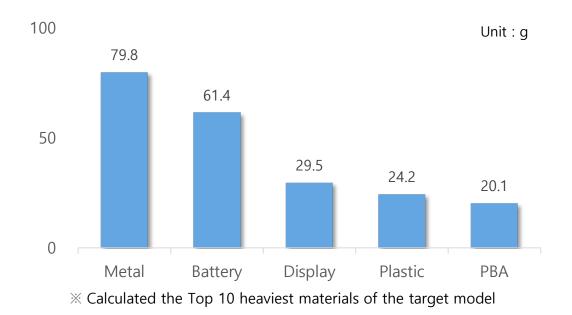


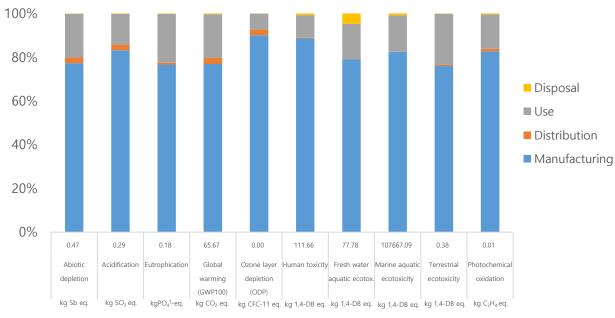
Model name	SM-S918U(Galaxy S23 Ultra)
Dimension	163.4 x 78.1 x 8.9 mm
Display	6.8" OLED
Weight	Product&Acc. : 253.99 g Packages : 128.15 g

# • Global Warming Impact Profile



# • Top 5 Substances of Target model





# Life Cycle Assessment for Galaxy S23+

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

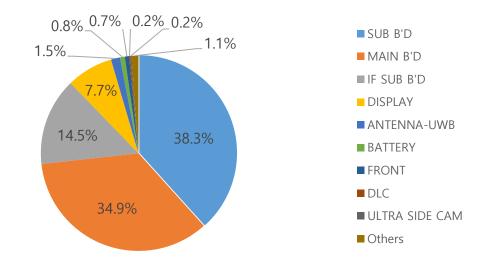
Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# System boundary of LCA

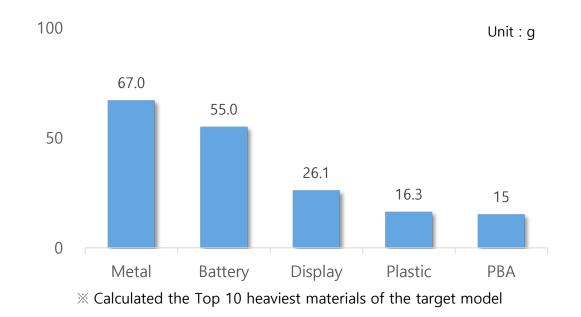
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material

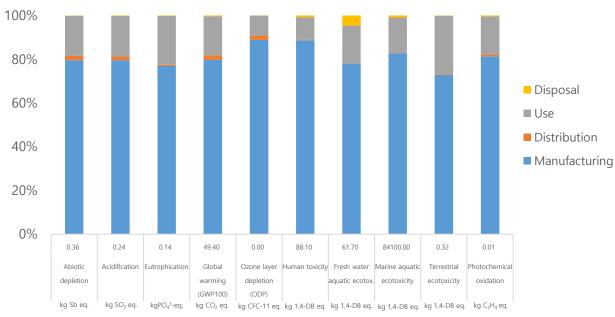
	Model name	SM-S916B(Galaxy S23+)
•	Dimension	157.8 x 76.2 x 7.6 mm
	Display	6.6" OLED
SAMSUNG	Weight	Product&Acc. : 206.16 g Packages : 123.99 g

# • Global Warming Impact Profile



# • Top 5 Substances of Target model





# Life Cycle Assessment for Galaxy S23+

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

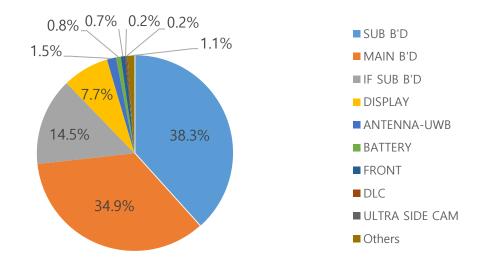
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

LCA Report Issuance Date : Feb 28, 2023

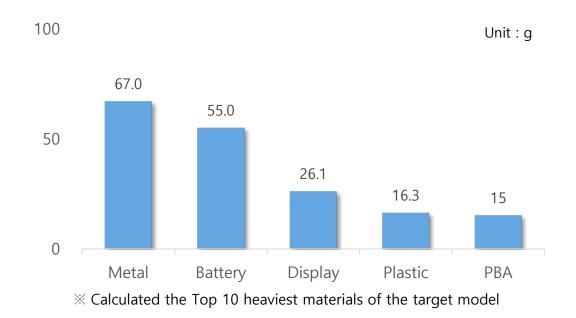
Webpage Publication Date of Summary of LCA : Feb 28, 2023

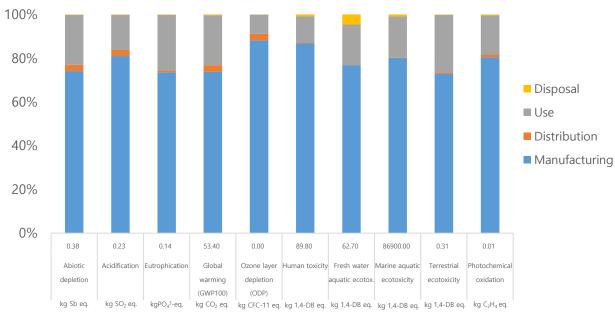
	Model name	SM-S916U(Galaxy S23+)
•	Dimension	157.8 x 76.2 x 7.6 mm
	Display	6.6" OLED
sansure	Weight	Product&Acc. : 206.16 g Packages : 123.99 g

#### Global Warming Impact Profile



# • Top 5 Substances of Target model





# Life Cycle Assessment for Galaxy S23

# Background

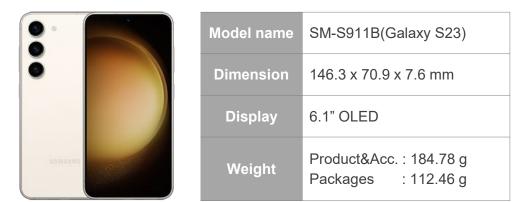
Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

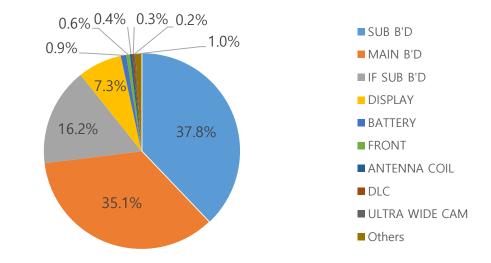
Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# • System boundary of LCA

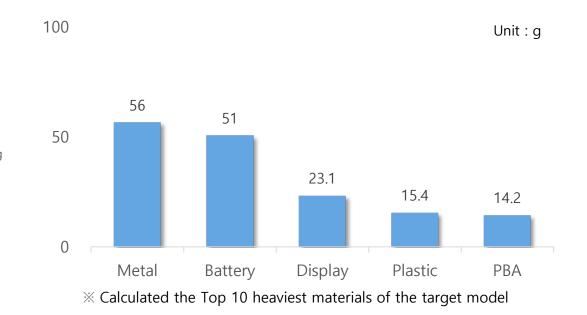
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material

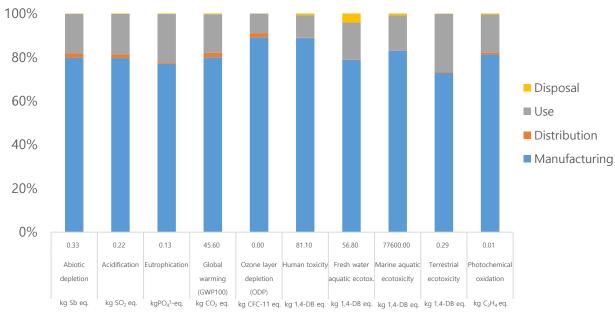


#### • Global Warming Impact Profile



# • Top 5 Substances of Target model





# Life Cycle Assessment for Galaxy S23

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

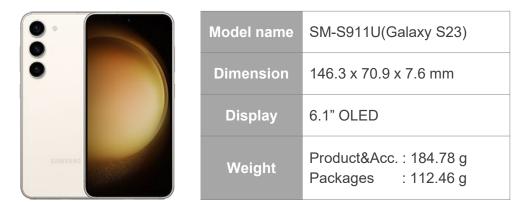
# • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

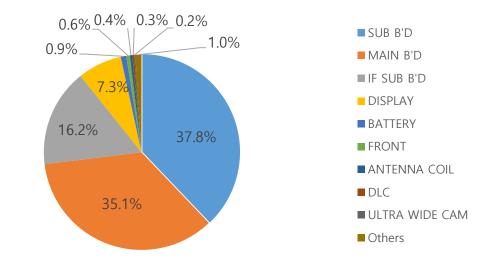
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

LCA Report Issuance Date : Feb 28, 2023

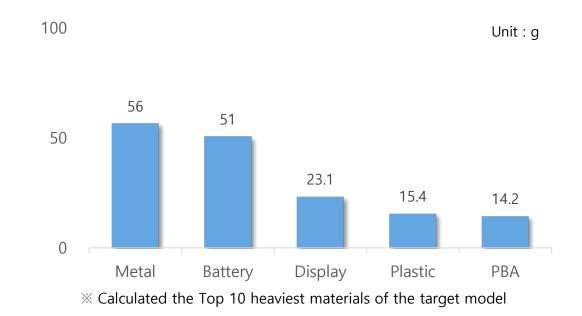
Webpage Publication Date of Summary of LCA : Feb 28, 2023

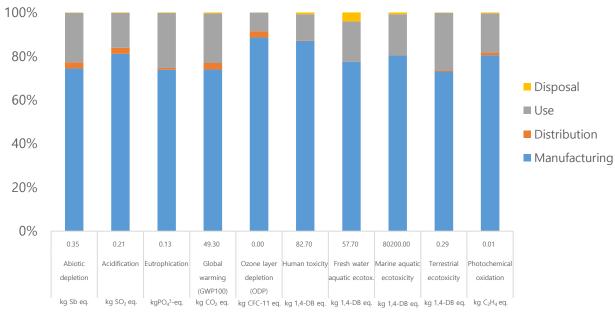


### Global Warming Impact Profile



# • Top 5 Substances of Target model





# Life Cycle Assessment for Galaxy Z Fold4

# Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

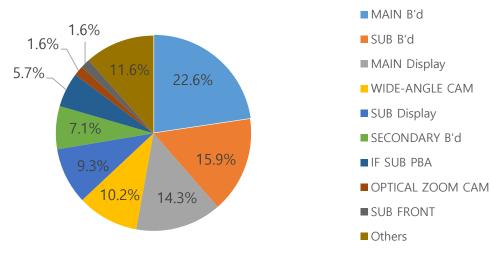
LCA Report Issuance Date : Sep 30, 2022

Webpage Publication Date of Summary of LCA : Sep 30, 2022

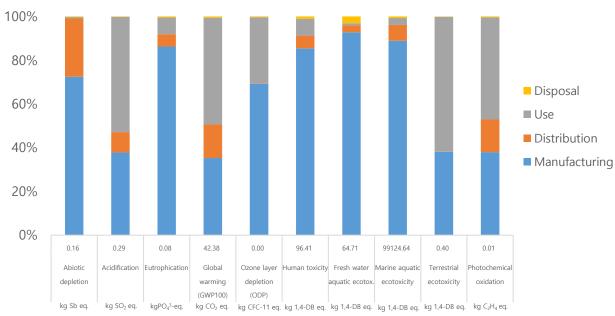


Model name	SM-F936U(Galaxy Z Fold4)
Dimension	155.1 x 130.1 x 6.3 mm
Display (Main / Sub)	OLED 7.6" / 6.2"
Weight	Product&Acc. : 284.72 g Packages : 189.03 g

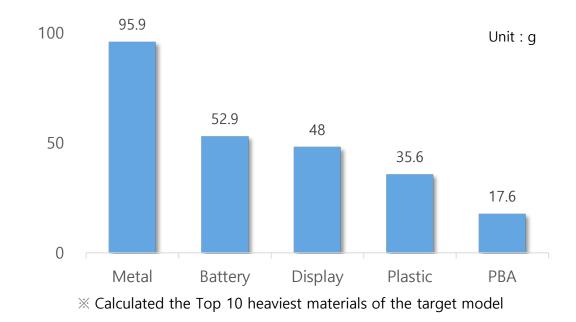
#### • Global Warming Impact Profile



### Characterized Environment Impact



#### • Top 5 Substances of Target model



## Life Cycle Assessment for Galaxy Z Flip4

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

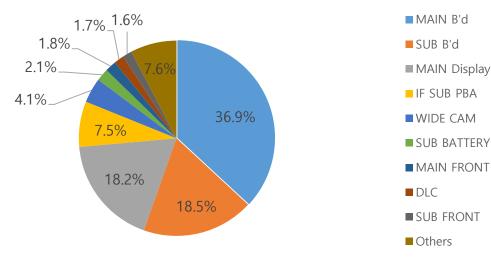
LCA Report Issuance Date : Sep 30, 2022

Webpage Publication Date of Summary of LCA : Sep 30, 2022

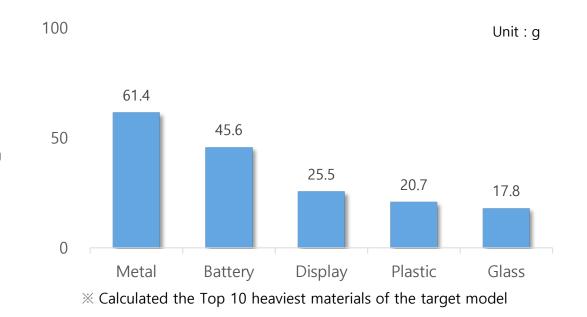


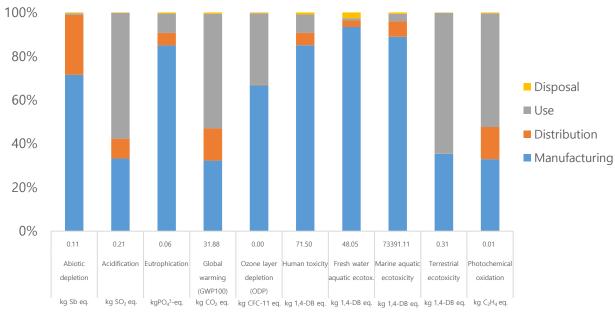
Model name	SM-F721U(Galaxy Z Flip4)
Dimension	165.2 x 71.9 x 6.9 mm
Display (Main / Sub)	OLED 6.7" / 1.9"
Weight	Product&Acc. : 208.72 g Packages : 132.34 g

#### • Global Warming Impact Profile



#### • Top 5 Substances of Target model





# Life Cycle Assessment for Galaxy XCover6 Pro

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

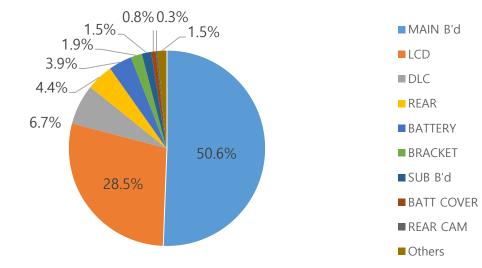
LCA Report Issuance Date : Aug 31, 2022

Webpage Publication Date of Summary of LCA : Aug 31, 2022

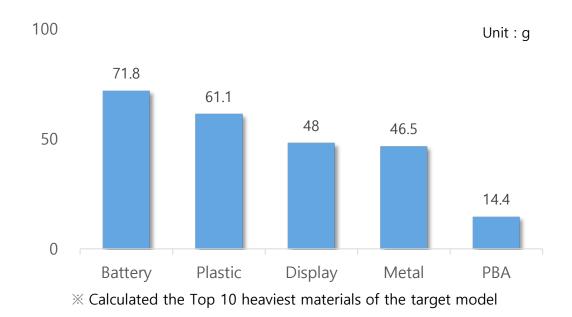


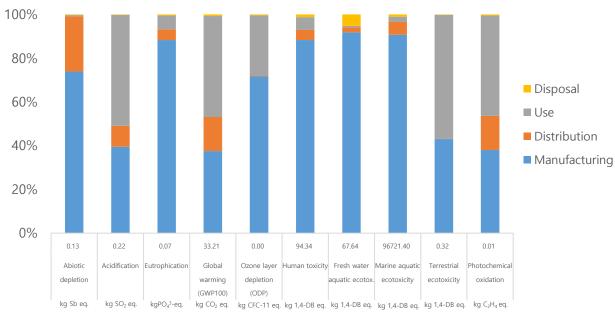
Medel is ense	SM-G736U
Model name	(Galaxy XCover6 Pro)
Dimension	169.9 × 70.0 × 0.0 mm
Dimension	168.8 x 79.9 x 9.9 mm
Display	6.6" LCD
Weight	Product&Acc. : 260.11 g
g	Packages : 115.50 g

#### • Global Warming Impact Profile



#### • Top 5 Substances of Target model





## Life Cycle Assessment for Galaxy M13

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

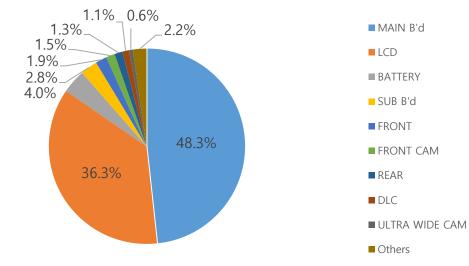
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)



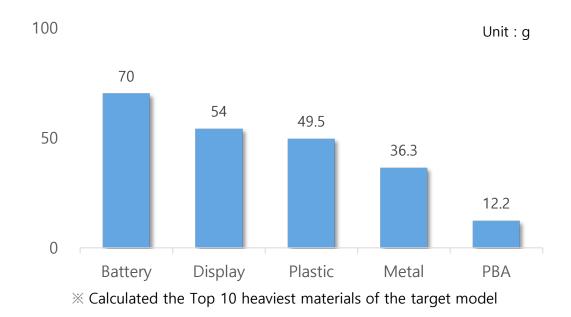
Model name	SM-M135F(Galaxy M13)
Dimension	165.4 x 76.9 x 8.4 mm
Display	6.6" LCD
Weight	Product&Acc. : 212.35 g Packages : 78.94 g

#### 100% 80% Disposal 60% Use Distribution 40% Manufacturing 20% 0% 0.16 0.12 0.08 20.84 0.00 77.97 58.62 79590.66 0.19 0.00 Abiotic Acidification Eutrophication Global Ozone layer Human toxicity Fresh water Marine aquatic Terrestrial Photochemical aquatic ecotox. ecotoxicity depletion warming depletion ecotoxicity oxidation (GWP100) (ODP) kg Sb eq. kg SO<sub>2</sub> eq. kgPO<sub>4</sub><sup>3</sup>-eq. kg CO<sub>2</sub> eq. kg CFC-11 eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg C<sub>2</sub>H<sub>4</sub> eq.

### • Global Warming Impact Profile



• Top 5 Substances of Target model



## Life Cycle Assessment for Galaxy A73 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### System boundary of LCA

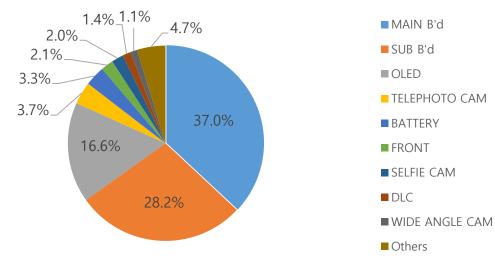
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

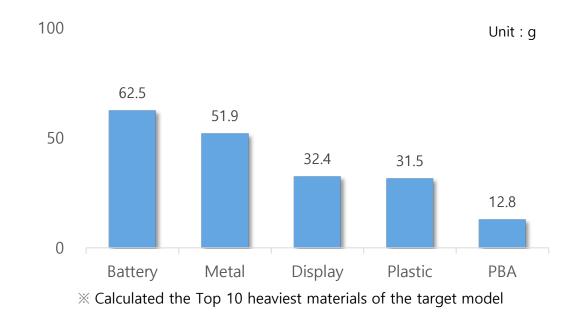


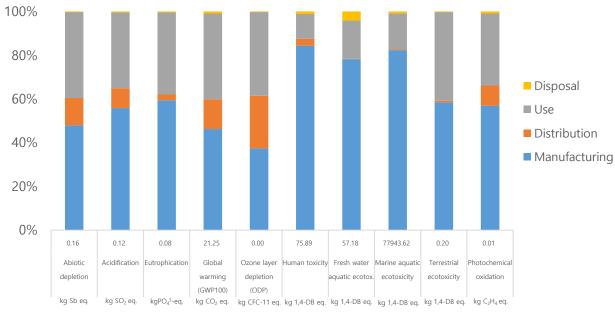
Model name	SM-A736B(Galaxy A73 5G)	
Dimension	163.7 * 76.1 * 7.6 mm	
Display	6.7" LCD	
Weight	Product&Acc. : 205.15 g Packages : 121.67 g	

#### • Global Warming Impact Profile



#### • Top 5 Substances of Target model





### Life Cycle Assessment for Galaxy A23

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### System boundary of LCA

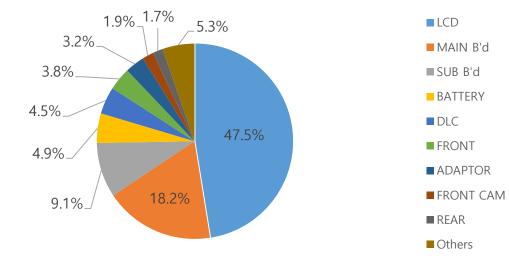
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

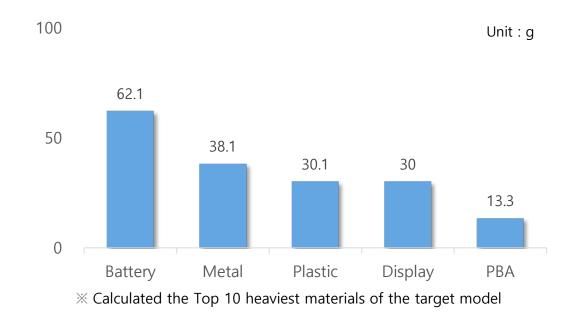


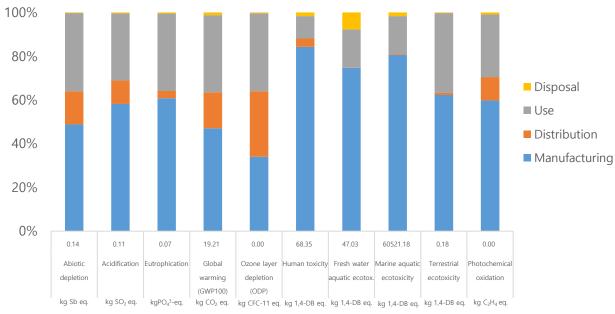
Model name	SM-A235F (Galaxy A23)
Dimension	165.4 * 76.9 * 8.4 mm
Display	6.6" LCD
Weight Product&Acc. : 205.29 g Packages : 102.65 g	

#### • Global Warming Impact Profile



#### • Top 5 Substances of Target model





## Life Cycle Assessment for Galaxy M53

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment consid ers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; a nd disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 s eries. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we as pire to improve the environmental specifications of ourproducts.

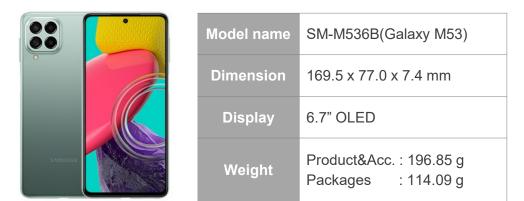
#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### System boundary of LCA

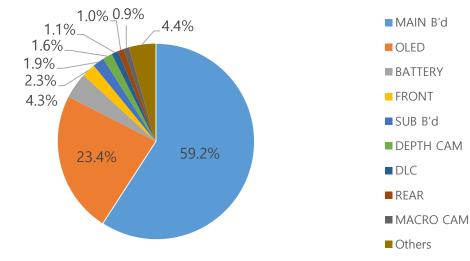
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

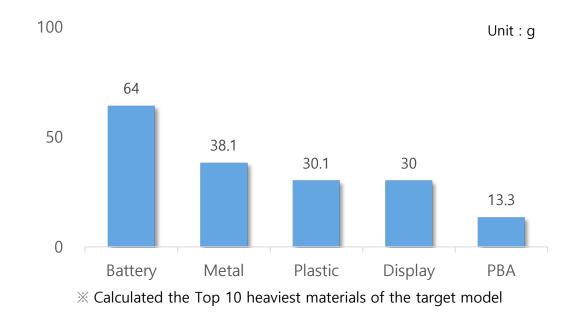


#### 100% 80% Disposal 60% Use Distribution 40% Manufacturing 20% 0% 0.16 0.13 0.08 22.00 0.00 78.70 59.50 81200.00 0.21 0.01 Abiotic Acidification Eutrophication Global Human toxicity Fresh water Marine aquatic Photochemical Ozone layer Terrestrial aquatic ecotox. ecotoxicity depletion warming depletion ecotoxicity oxidation (GWP100) (ODP) kg SO<sub>2</sub> eq. kg Sb eq. kgPO<sub>4</sub><sup>3</sup>-eq. kg CO<sub>2</sub> eq. kg CFC-11 eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg C<sub>2</sub>H<sub>4</sub> eq.

#### Global Warming Impact Profile



• Top 5 Substances of Target model



## Life Cycle Assessment for Galaxy M33

#### Background

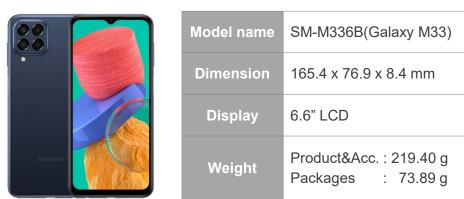
Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment consid ers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; a nd disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 s eries. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we as pire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

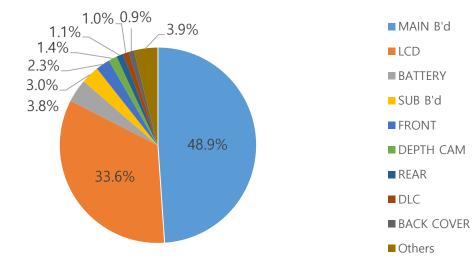
#### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

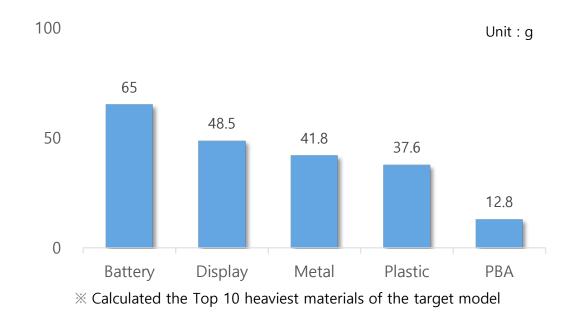


#### 100% 80% Disposal 60% Use Distribution 40% Manufacturing 20% 0% 0.16 0.13 0.08 22.04 0.00 81.65 61.16 83807.43 0.21 0.01 Abiotic Acidification Eutrophication Global Human toxicity Fresh water Marine aquatic Photochemical Ozone layer Terrestrial depletion warming depletion aquatic ecotox. ecotoxicity ecotoxicity oxidation (GWP100) (ODP) kg SO<sub>2</sub> eq. kg Sb eq. kgPO<sub>4</sub><sup>3</sup>-eq. kg CO<sub>2</sub> eq. kg CFC-11 eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg C<sub>2</sub>H<sub>4</sub> eq.

### Global Warming Impact Profile



• Top 5 Substances of Target model



## Life Cycle Assessment for Galaxy M23

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment consid ers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; a nd disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 s eries. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we as pire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### System boundary of LCA

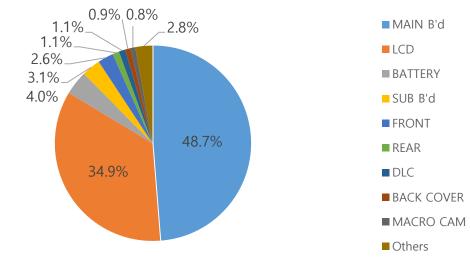
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

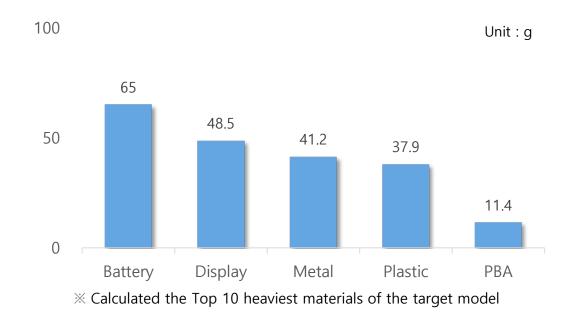
Model name	SM-M236B(Galaxy M23)
Dimension	167.2 x 77.0 x 8.4 mm
Display	6.6" LCD
Weight	Product&Acc. : 218.55 g Packages : 92.98 g

#### 100% 80% Disposal 60% Use Distribution 40% Manufacturing 20% 0% 0.16 0.12 0.08 21.52 0.00 79.45 59.11 80687.96 0.20 0.01 Abiotic Acidification Eutrophication Global Ozone layer Human toxicity Fresh water Marine aquatic Terrestrial Photochemical aquatic ecotox. ecotoxicity depletion warming depletion ecotoxicity oxidation (GWP100) (ODP) kg Sb eq. kg SO<sub>2</sub> eq. kgPO<sub>4</sub><sup>3</sup>-eq. kg CO<sub>2</sub> eq. kg CFC-11 eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg C<sub>2</sub>H<sub>4</sub> eq.

### • Global Warming Impact Profile



• Top 5 Substances of Target model



### Life Cycle Assessment for Galaxy A13

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### • System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

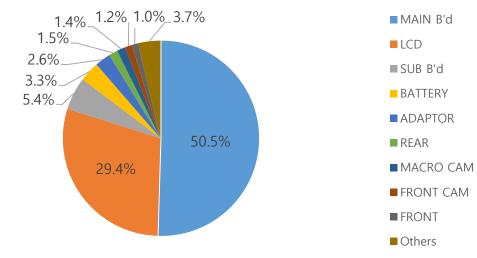
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)



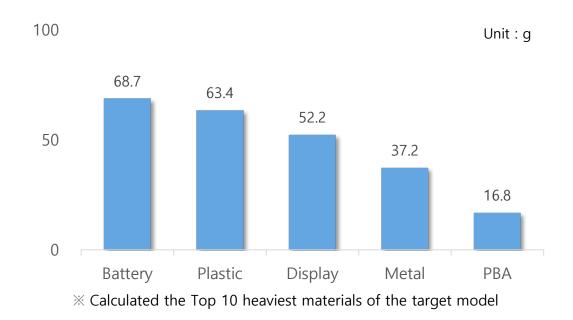
Model name	SM-A135F(Galaxy A13)
Dimension	165.1 x 76.4 x 8.8 mm
Display	6.6" LCD
Weight	Product&Acc. : 264.14 g Packages : 90.43 g

#### 100% 80% Disposal 60% Use Distribution 40% Manufacturing 20% 0% 0.18 0.14 0.09 23.68 0.00 99.88 73.37 100233.30 0.23 0.01 Abiotic Acidification Eutrophication Global Ozone layer Human toxicity Fresh water Marine aquatic Terrestrial Photochemical depletion warming depletion aquatic ecotox. ecotoxicity ecotoxicity oxidation (GWP100) (ODP) kg Sb eq. kg SO<sub>2</sub> eq. kgPO<sub>4</sub><sup>3</sup>-eq. kg CO<sub>2</sub> eq. kg CFC-11 eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg 1,4-DB eq. kg C<sub>2</sub>H<sub>4</sub> eq.

### • Global Warming Impact Profile



#### • Top 5 Substances of Target model



# Life Cycle Assessment for Galaxy S22 Ultra

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment conside rs potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; an d disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 seri es. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life sc enario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact c ategories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact categor y has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspir e to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

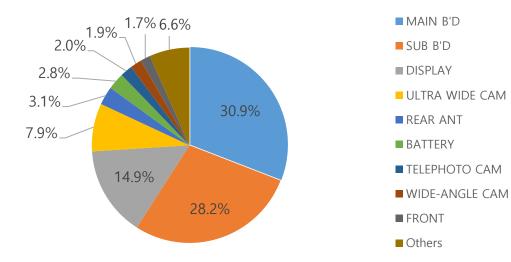
LCA Report Issuance Date : Apr 29, 2022

Webpage Publication Date of Summary of LCA : Apr 29, 2022

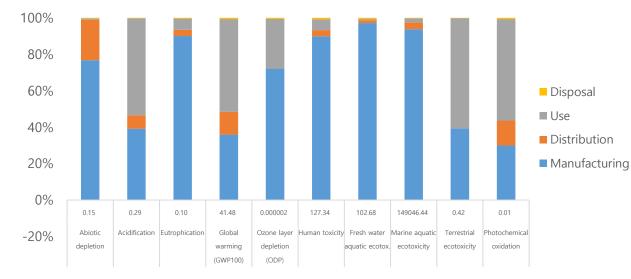


Model name	SM-S908U(Galaxy S22 Ultra)
Dimension	163.3 x 77.9 x 8.9 mm
Display	OLED 6.8"
Weight	Product & Acc. : 250.05 g Packages : 124.74 g

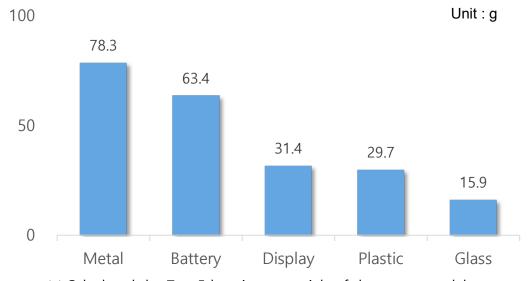
#### • Global Warming Impact Profile



Characterized Environment Impact



#### Top 5 Substances of Target model



× Calculated the Top 5 heaviest materials of the target model

## Life Cycle Assessment for Galaxy S22+

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment conside rs potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; an d disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 seri es. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life sc enario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspi re to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

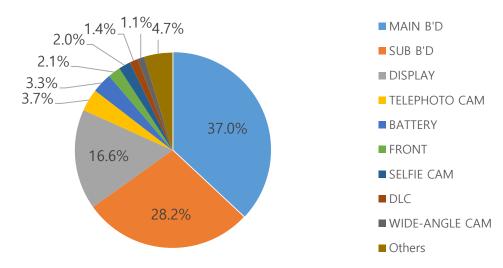
#### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

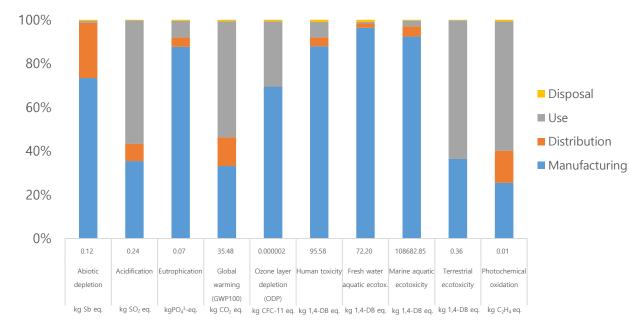
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Model name	SM-S906U(Galaxy S22+)
Dimension	157.4 x 75.8 x 7.6 mm
Display	OLED 6.6"
Weight	Product & Acc. : 217.05 g Packages : 121.11 g

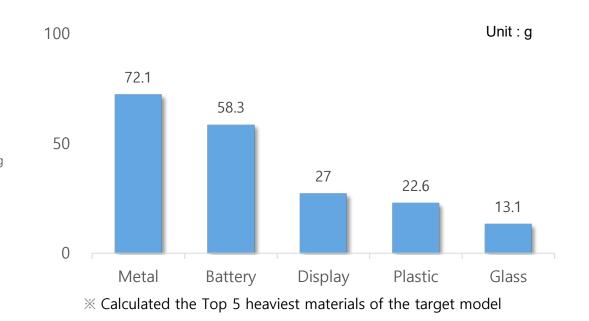
#### • Global Warming Impact Profile



#### Characterized Environment Impact



#### • Top 5 Substances of Target model



## Life Cycle Assessment for Galaxy S22

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment conside rs potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; an d disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 seri es. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life sc enario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspi re to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

#### System boundary of LCA

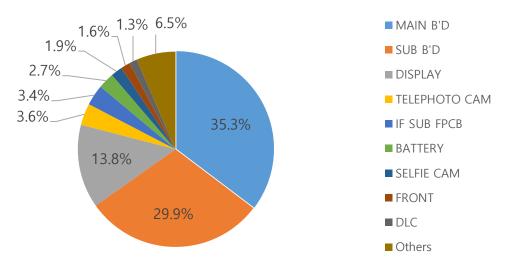
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

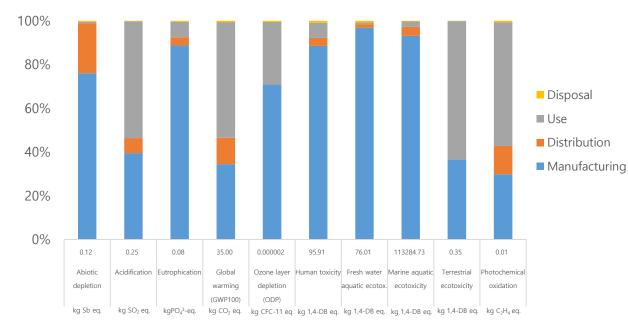


Model name	SM-S901U(Galaxy S22)
Dimension	146.0 x 70.6 x 7.6 mm
Display	OLED 6.1"
Weight	Product & Acc. : 189.17 g Packages : 116.91 g

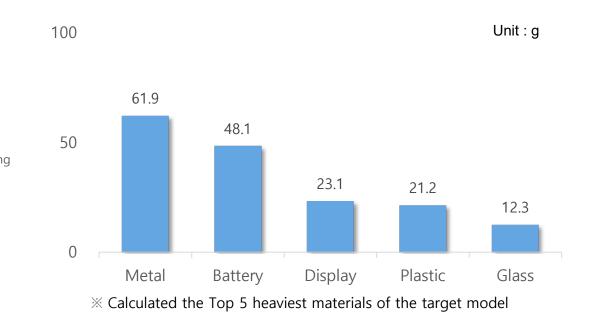
#### • Global Warming Impact Profile



#### Characterized Environment Impact



#### • Top 5 Substances of Target model



# Life Cycle Assessment for Galaxy S21 FE

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product u se; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide r ange of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-o f-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment i mpact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

#### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

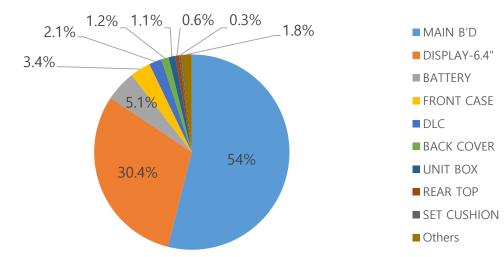
LCA Report Issuance Date : Oct 29, 2021

Webpage Publication Date of Summary of LCA : Oct 29, 2021

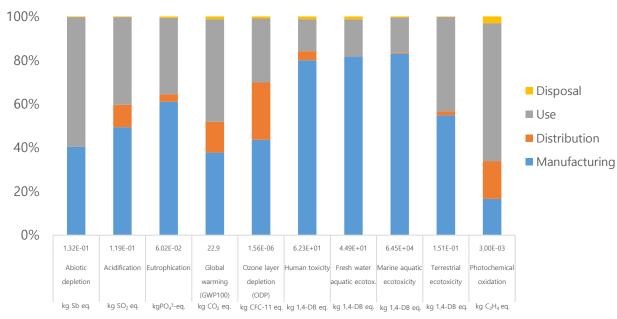


Model name	SM-G990B(Galaxy S21 FE)			
Dimension	155.7 x 74.5 x 7.9 mm			
Display	OLED 6.4"			
Weight	Product&Acc.:202.11 g Packages :136.43 g			

#### • Global Warming Impact Profile

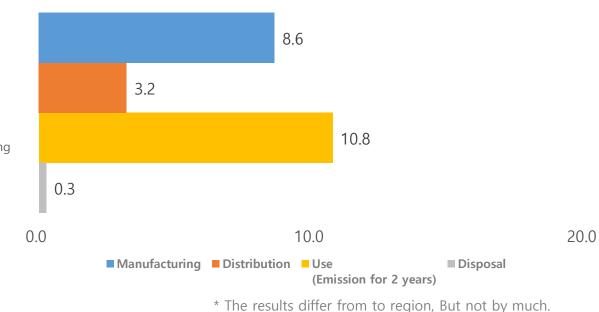


#### Characterized Environment Impact



• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



# Life Cycle Assessment for Galaxy S20 FE

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide r ange of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-o f-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment i mpact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

#### System boundary of LCA

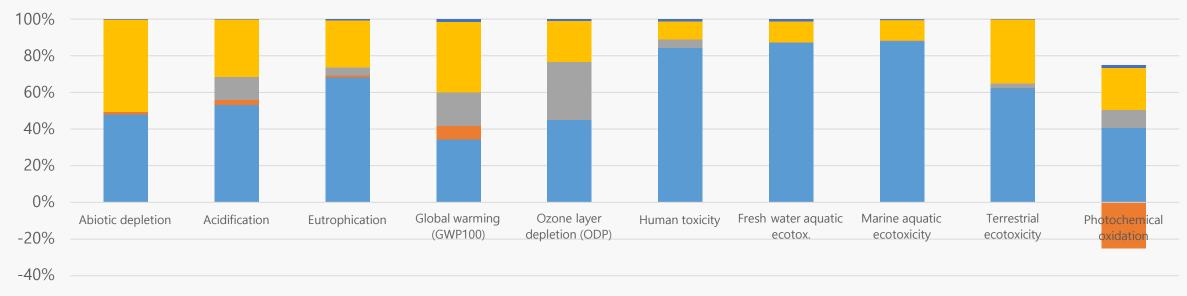
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

#### • Numerical environmental impact

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SAMSUNG

Modelname	SM-G781B(Galaxy S20 FE)
Processor	Qualcomm, SM8250, 2.8GHz,2.4GHz, 1.8GHz Octa-Core 64bit
Dimension	159.8 x 74.5 x 8.4 mm
Display	On-Cell Touch AMOLED, 6.5 "
Memory	ROM 128GB, RAM 6GB
Battery	4370 mAh
Camera	Main : 12.0M pixel / Sub : 32.0M pixel
Weight	Product&Acc. : 253.74g / PKG : 229.66g

Impact category	Total	Unit	Pre-Manu facturing	Manu facturing	Distribution	Use	Disposal
Abiotic depletion	1.40E-01	kg Sb eq.	6.72E-02	1.62E-03	8.69E-06	7.03E-02	4.74E-04
Acidification	1.37E-01	kg SO₂eq.	7.29E-02	3.37E-03	1.74E-02	4.27E-02	3.07E-04
Eutrophication	7.30E-02	kgPO4 <sup>3</sup> -eq.	4.98E-02	8.88E-04	2.97E-03	1.88E-02	5.15E-04
Global warming (GWP100)	2.50E+01	kg CO <sub>2</sub> eq.	8.63E+00	1.84E+00	4.58E+00	9.64E+00	3.56E-01
Ozone layer depletion (ODP)	1.83E-06	kg CFC-11 eq.	8.22E-07	5.08E-11	5.83E-07	4.08E-07	1.72E-08
Human toxicity	8.20E+01	kg 1,4-DB eq.	6.92E+01	7.81E-05	3.69E+00	8.14E+00	1.03E+00
Fresh water aquatic ecotox.	6.02E+01	kg 1,4-DB eq.	5.25E+01	1.59E-04	3.26E-02	6.81E+00	8.05E-01
Marine aquatic ecotoxicity	8.41E+04	kg 1,4-DB eq.	7.40E+04	1.33E-01	3.22E+02	9.33E+03	4.84E+02
Terrestrial ecotoxicity	1.67E-01	kg 1,4-DB eq.	1.04E-01	4.86E-06	3.99E-03	5.83E-02	4.36E-04
Photochemical oxidation	3.70E-03	kg C₂H₄eq.	3.03E-03	-1.88E-03	7.39E-04	1.69E-03	1.14E-04



# Life Cycle Assessment for Galaxy Z Fold3

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product u se; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide r ange of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-o f-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment i mpact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

#### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

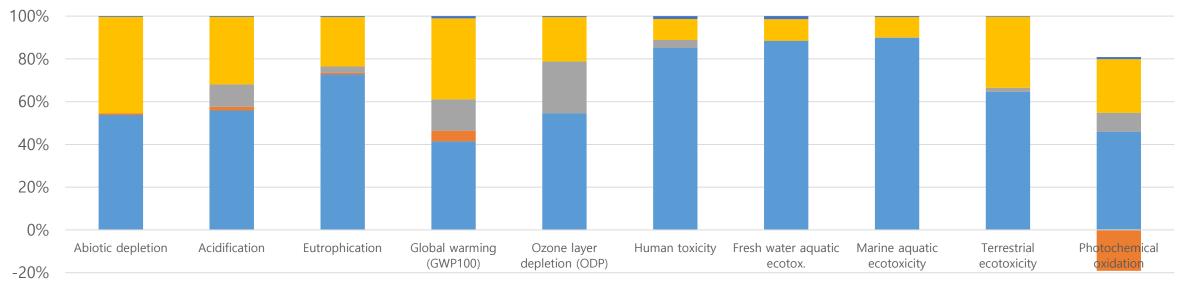
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)



Model name	SM-F926B(Galaxy Z Fold3)
	SIVI-1 920D(Galaxy 2 1 0103)
Processor	Qualcomm, SM8350, 2.84GHz,2.4GHz, 1.8GHz Octa-Core 64bit
Dimension	158.2 x 128.1 x 6.4 mm
Display	OLED 7.6" / 6.2"
Memory	ROM 256GB, RAM 12GB
Battery	4275 mAh
Camera	Main : 12.0M pixel / Sub : 4.0M pixel
Weight	Product&Acc. : 290.16g / PKG : 209.87g

Numerical environmental impact	
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Impact category	Total	Unit	Pre-Manu facturing	Manu facturing	Distribution	Use	Disposal
Abiotic depletion	1.97E-01	kg Sb eq.	1.06E-01	1.42E-03	8.99E-06	8.92E-02	6.64E-04
Acidification	1.72E-01	kg SO₂ eq	9.58E-02	2.95E-03	1.80E-02	5.41E-02	6.35E-04
Eutrophication	1.03E-01	kg PO <sub>4</sub> <sup>3-</sup> eq	7.51E-02	7.78E-04	3.08E-03	2.39E-02	4.95E-04
Global warming (GWP100)	3.23E+01	kg CO <sub>2</sub> eq	1.34E+01	1.61E+00	4.74E+00	1.22E+01	3.38E-01
Ozone layer depletion (ODP)	2.49E-06	kg CFC11 eq	1.36E-06	4.45E-11	6.03E-07	5.18E-07	1.18E-08
Human toxicity	1.05E+02	kg 1,4-DB eq	8.98E+01	6.84E-05	3.83E+00	1.03E+01	1.40E+00
Fresh water aquatic ecotox.	8.56E+01	kg 1,4-DB eq	7.57E+01	1.39E-04	3.38E-02	8.64E+00	1.20E+00
Marine aquatic ecotoxicity	1.25E+05	kg 1,4-DB eq	1.12E+05	1.17E-01	3.33E+02	1.18E+04	5.53E+02
Terrestrial ecotoxicity	2.22E-01	kg 1,4-DB eq	1.44E-01	4.26E-06	4.13E-03	7.39E-02	6.96E-04
Photochemical oxidation	5.27E-03	kg C <sub>2</sub> H <sub>4</sub>	3.92E-03	-1.64E-03	7.65E-04	2.15E-03	8.25E-05



# Life Cycle Assessment for Galaxy Z Flip3

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product u se; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide r ange of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-o f-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment i mpact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

#### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

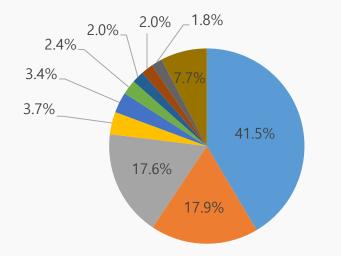
LCA Report Issuance Date : Aug 31, 2021

Webpage Publication Date of Summary of LCA : Aug 31, 2021



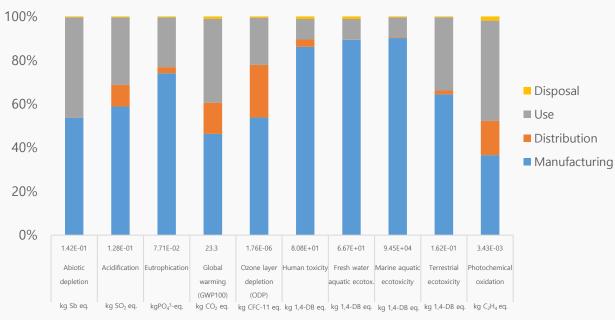
Model name	SM-F711B(Galaxy Z Flip3)
Dimension	166.0 x 72.2 x 6.9 mm
Display	OLED 6.7" / 1.9"
Weight	Product&Acc. : 209.49 g Packages : 142.25 g

#### • Global Warming Impact Profile



MASTER B'D
MAIN DISPLAY-6.7"
SLAVE B'D
CAMERA
MAIN FRONT
C TO C FPCB
BATTERY
NFC ANT
UNIT BOX
Others

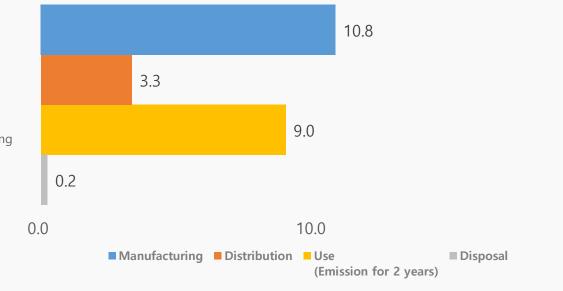
### Characterized Environment Impact



### • Life Cycle Carbon Emissions

Unit : kgCO2 eq.

20.0



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A12

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product u se; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide r ange of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-o f-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment i mpact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

#### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

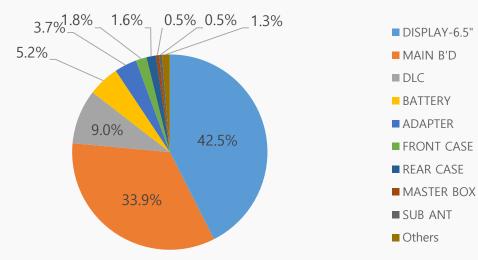
LCA Report Issuance Date : Jun 30, 2021

Webpage Publication Date of Summary of LCA : Jun 30, 2021

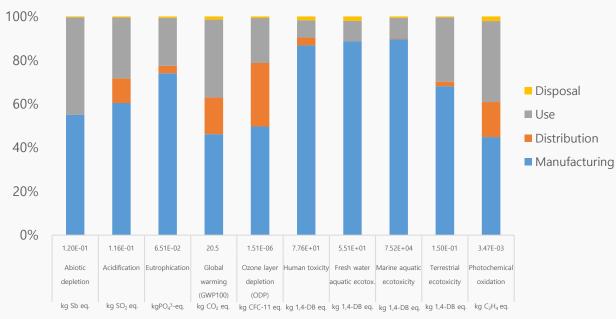


Model name	SM-A127F(Galaxy A12)
Dimension	$164 \times 75.8 \times 8.9 \text{ mm}$
Display	LCD 6.5"
Weight	Product&Acc.: 268.45 g Packages : 93.77 g

#### • Global Warming Impact Profile

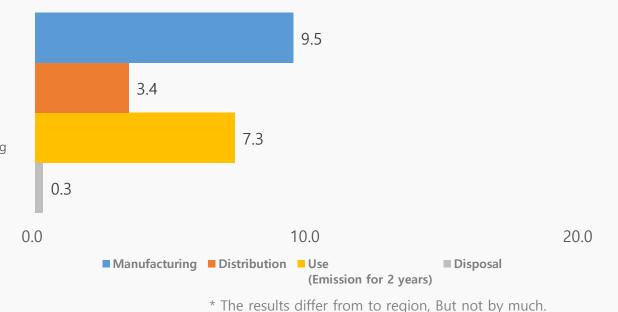


#### • Characterized Environment Impact



• Life Cycle Carbon Emissions

Unit : kgCO2 eq.



# Life Cycle Assessment for Galaxy Note20 Ultra

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product us e; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 1404 0 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide ran ge of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-lif e scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact cate gory has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we as pire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

#### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

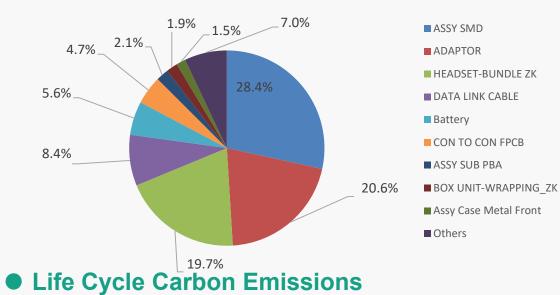
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

LCA Report Issuance Date : Oct 30, 2020

Webpage Publication Date of Summary of LCA : Oct 30, 2020

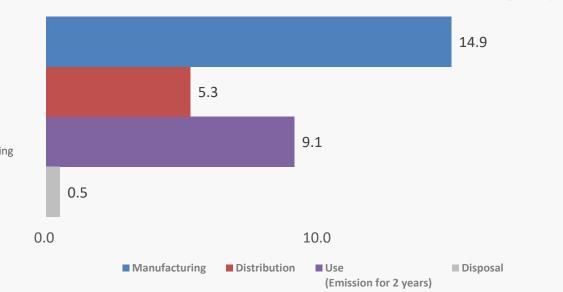
	Model name	SM-N986B (Galaxy Note20 Ultra)
	Processor	Octa-Core 3.09GHz,2.4GHz,1.8GHz
	Dimension	164.8 x 77.2 x 8.1 mm
The P	Display	OLED 6.9 "
	Memory	ROM 256GB, RAM 12GB
SAMSUNG	Battery	4500 mAh
	Camera	Main : 108M pixel / Sub : 10M pixel
	Weight	Product&Acc. : 303.79g / PKG 252.14g

#### Global Warming Impact Profile

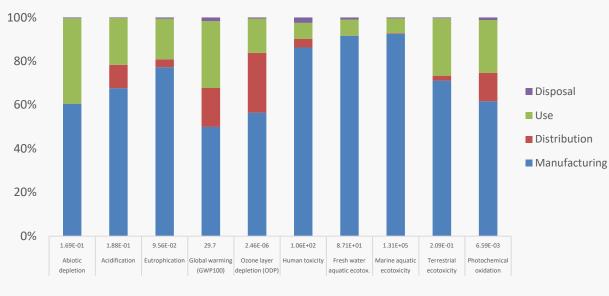


Unit : kgCO₂ eq.

20.0



#### Characterized Environment Impact



kg Sb eq. kg SO\_2 eq. kg PO\_4 <sup>3</sup>-eq. kg CO\_2 eq. kg CFC-11 eq. kg 1,4-DB eq. kg 2,4 4 eq. kg 2,4 4 eq. kg 2,4 4 eq. kg 2,4 4 eq. kg 3,4 4 eq. kg 4,4 kg 4,4 kq 4,4 k

\* The results differ from to region, But not by much.

# Life Cycle Assessment for Mobile Products

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The most recent life cycle assessment (LCA) has been for the Samsung Galaxy S6; Note5; J1x; On5x; Note8. The assessment considers potential environmental im pacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used Simapro7 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories includin g; Product bill of material (BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to at tain the highest level of accuracy. The outcome of the LCA confirmed and quantified 12 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for e ach life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environment ental specifications of our products.

#### **Calculation basis**

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 2.2
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2001 as provided in the SimaPro 7.1.5 LCA tool
LCA software	SimaPro 7.1.5

#### System boundary of LCA

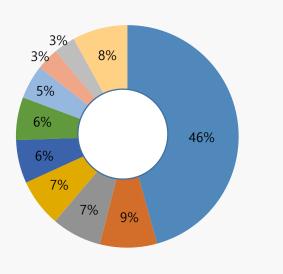
Pre- manufacturing	Parts and materials constituting the products and its transportation (from supplier to Samsung factory)
Manufacturing	Product assembly by Samsung Electronics (Data collection period : 3 months ahead of assessment)
Distribution	From China or Vietnam to United States
Usage	2 years use
Disposal	Waste treatment of parts and material

Critical review for Galaxy S6 LCA study was done by an expert from Korean Society for Life Cycle Assessment. (kslca@naver.com) For the rest, it was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

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SAMSUNG	

Model name	SM-N950U (Galaxy Note8)
Processor	Qualcomm 2.35GHz, 1.9GHz Octa-Core 64bit
Dimension	162.5 x 74.8 x 8.6 mm
Display	6.3" 2960 x 1440, 16M In-Cell Touch LCD
Battery	Li-Ion 3300 mAh
Camera	12 MP / 5MP
Wt.(g)	186.34g

#### Material Use

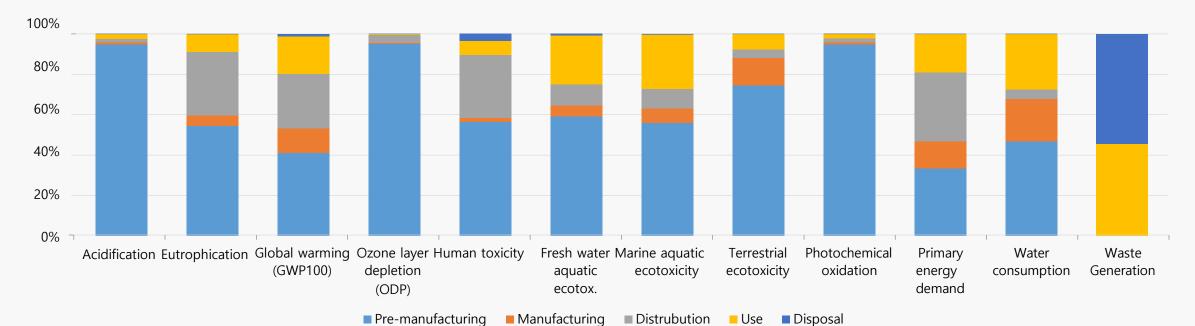


Paper
Aluminium
Polycarbonate
Battery
LCD module

Copper

PET

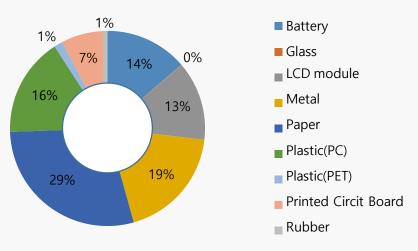
- Stainless steel
- Polyester
- Others

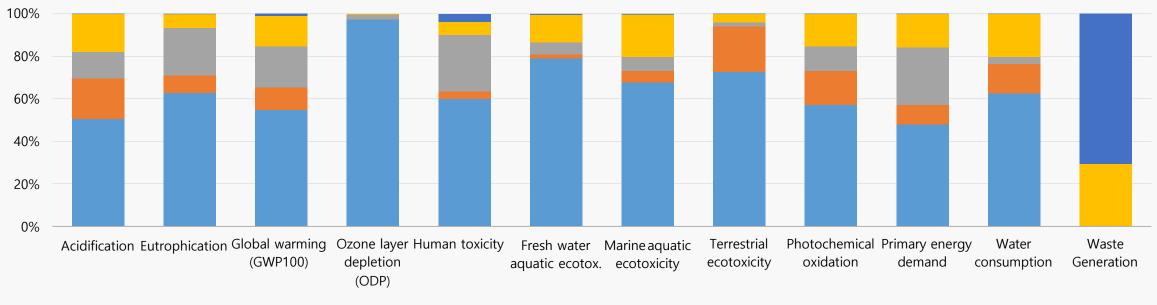




Model name	SM-G5510 (Galaxy On5x)
Processor	Quad-Core1.4GHz
Dimension	142.8 x 69.5 x 8.1 mm
Display	LCD 5"
Battery	Li-Ion 2600 mAh
Camera	12 MP / 5MP
Wt.(g)	149 g

#### Material Use

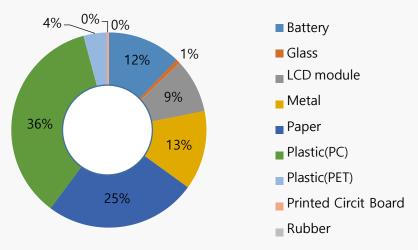


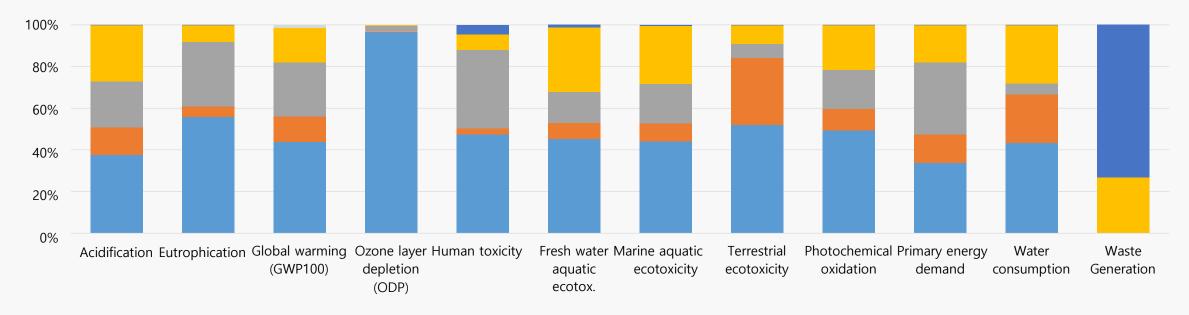




Model name	SM-J120A (Galaxy J1x)
Processor	Quad-core 1.2 GHz
Dimension	132.6 x 69.3 x 8.9 mm
Display	AMOLED 4.5"
Memory	microSD, up to 128 GB
Battery	Li-Ion 2050 mAh
Camera	5 MP
Wt.(g)	132 g

#### Material Use

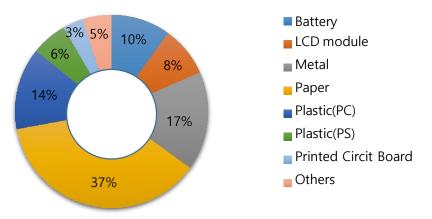




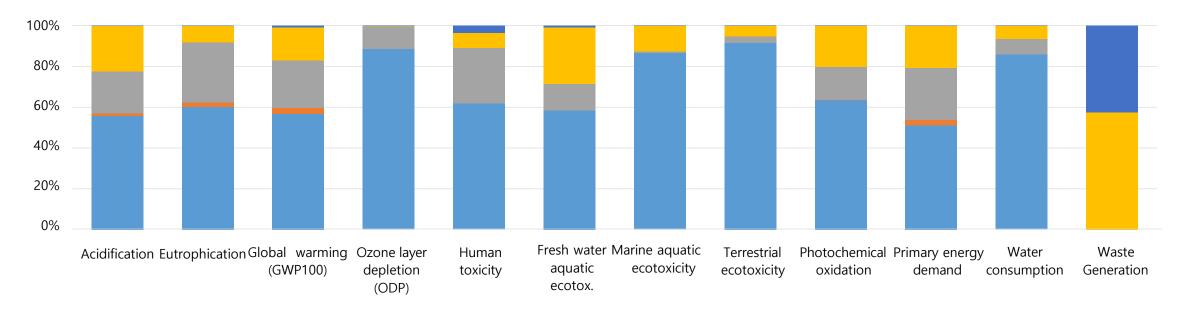


Model name	SM-N920V (Galaxy Note5)
Processor	Octa-Core 2.1GHz, 1.5GHz
Dimension	153.2 x 76.2 x 7.62 mm
Display	Super AMOLED 5.7 "
Memory	32GB, 4GB RAM
Battery	3000mAh
Camera	Main : 16M pixel / Front : 5M pixel
Wt.(g)	Product : 192g / Packaging 259 g

#### Material Use



#### Characterized Environment Impact

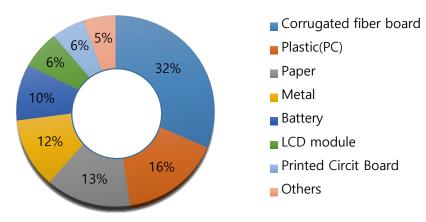


■ Pre-manufacturing ■ Manufacturing ■ Distribution ■ Use ■ Disposal

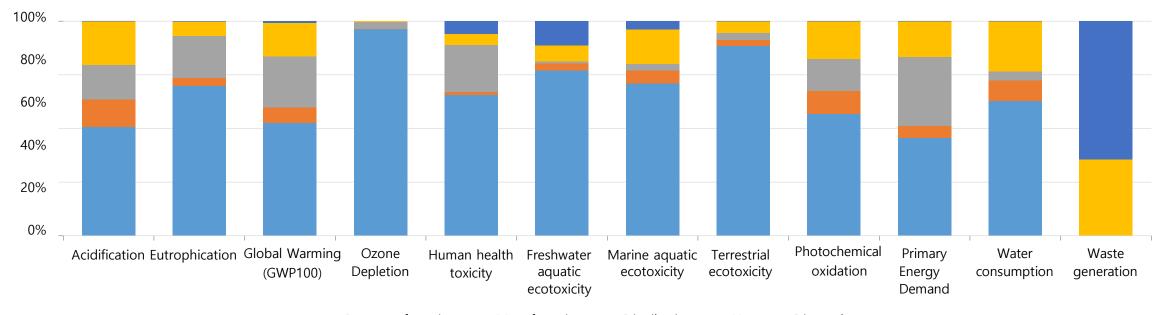


Model name	SM-G920V (Galaxy S6)
Processor	Octa-Core 2.1GHz, 1.5GHz
Dimension	143.4 x 70.5 x 6.8 mm
Display	Super AMOLED 5.1 "
Memory	32GB
Battery	2550mAh
Camera	Main : 16M pixel / Front : 5M pixel
Wt.(g)	Product : 138g / Packaging 261 g

#### Material Use



#### Characterized Environment Impact



Pre-manufacturing
Manufacturing
Distribution
Use
Disposal