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Life Cycle Assessment for Galaxy Watch 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 9.6.0.1 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 3.10 |
| 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 9.6.0.1 LCA tool |
| LCA software | SimaPro 9.6.0.1 |

● System boundary of LCA

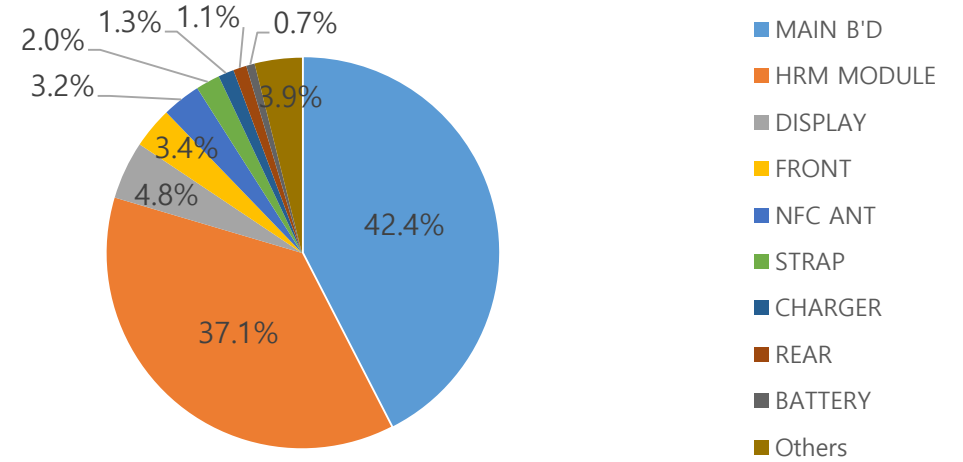
| | |
|-------------------|--|
| Pre-manufacturing | Parts and materials constituting the products and its transportation |
| Manufacturing | Product assembly by Samsung Electronics |
| Distribution | From Vietnam to US |
| Use | 3 years use |
| Disposal | Waste treatment of parts and material |

● Product Features

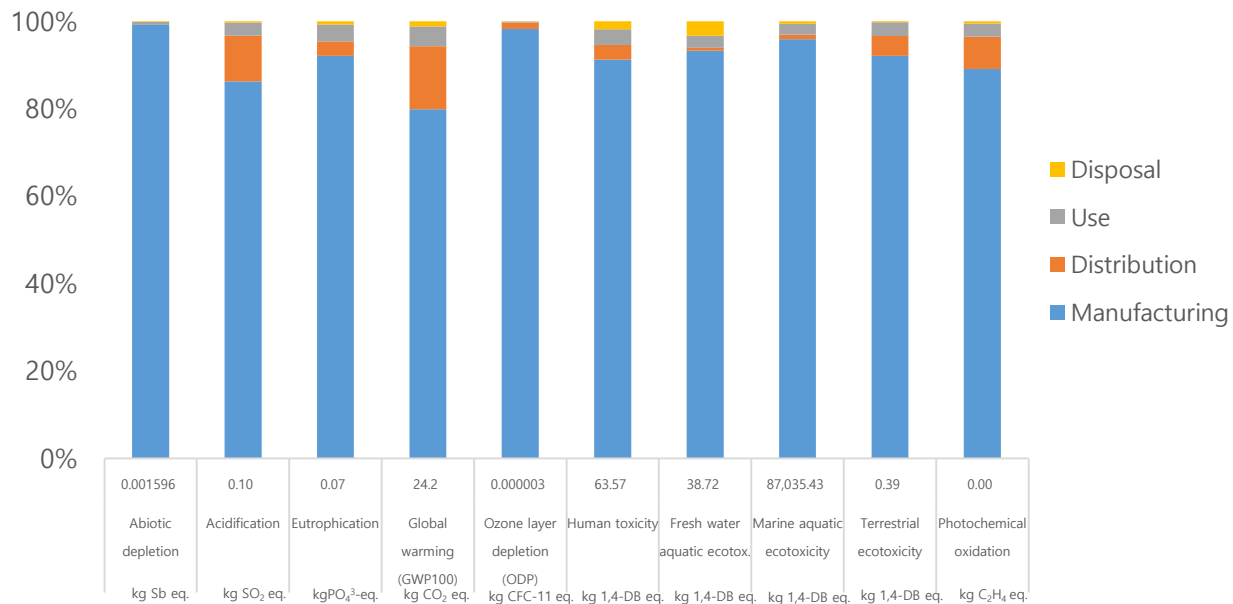


| | |
|-------------------|--|
| Model name | SM-L705U(Galaxy Watch Ultra) |
| Dimension | 47.4 x 47.1 x 12.1 mm |
| Display | OLED 1.5" |
| Weight | Product & Acc. : 118.10g Packages : 203.66g |

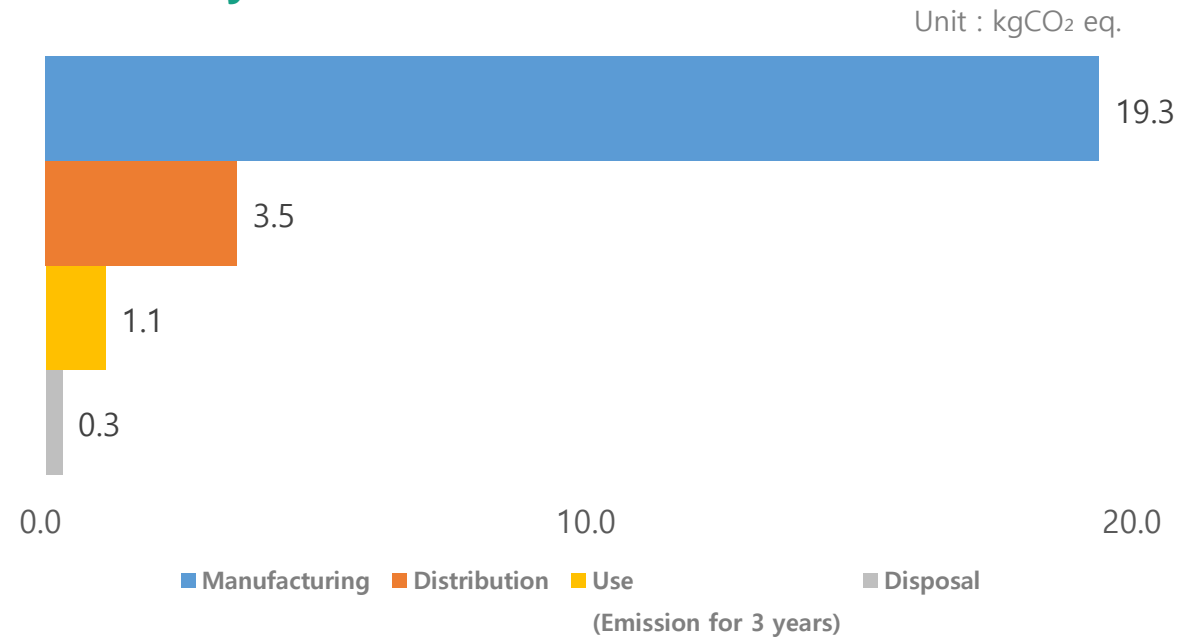
● Global Warming Impact Profile



● Characterized Environment Impact



● Life Cycle Carbon Emissions



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

Life Cycle Assessment for Galaxy Watch7 44mm

● 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

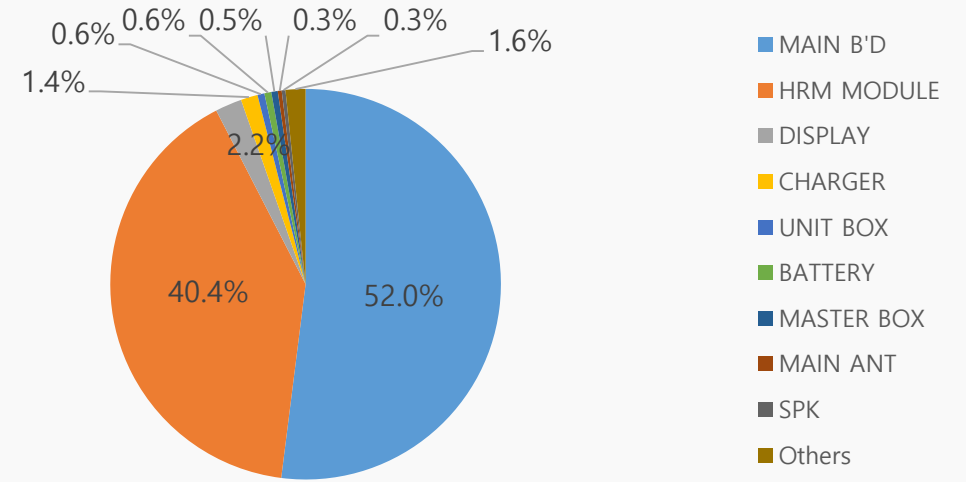
| | |
|-------------------|--|
| Pre-manufacturing | Parts and materials constituting the products and its transportation |
| Manufacturing | Product assembly by Samsung Electronics |
| Distribution | From Vietnam to US |
| Use | 3 years use |
| Disposal | Waste treatment of parts and material |

● Product Features

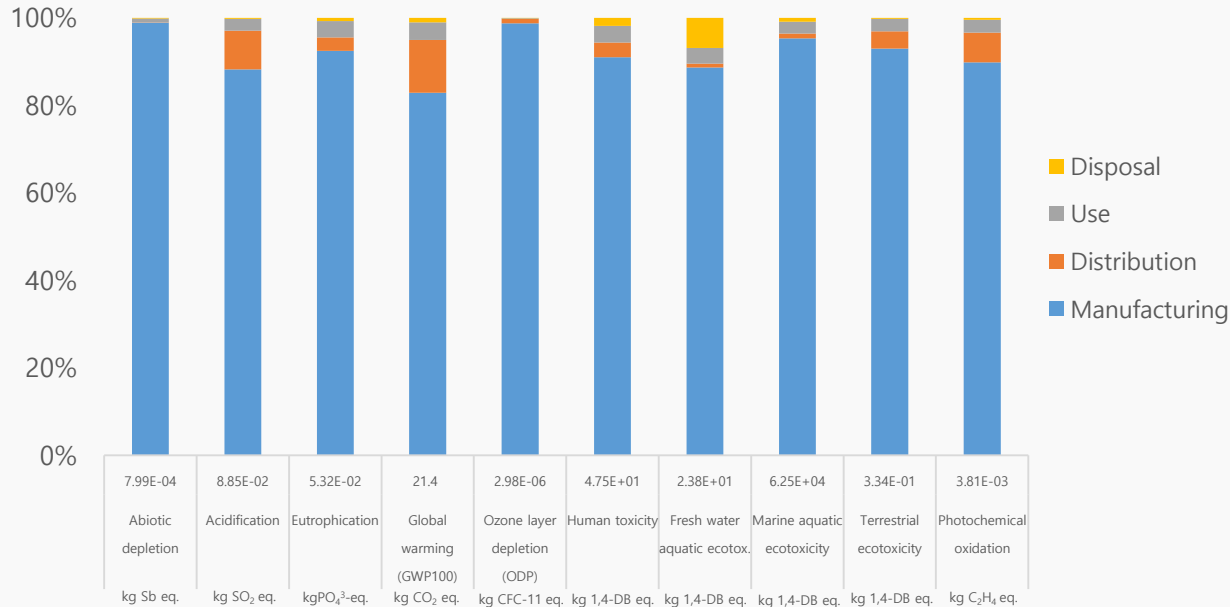


| | |
|------------|---|
| Model name | SM-L315U(Galaxy Watch7 44mm) |
| Dimension | 44.4 x 44.4 x 9.7 mm |
| Display | OLED 1.47" |
| Weight | Product&Acc. : 84.48 g Packages : 154.45 g |

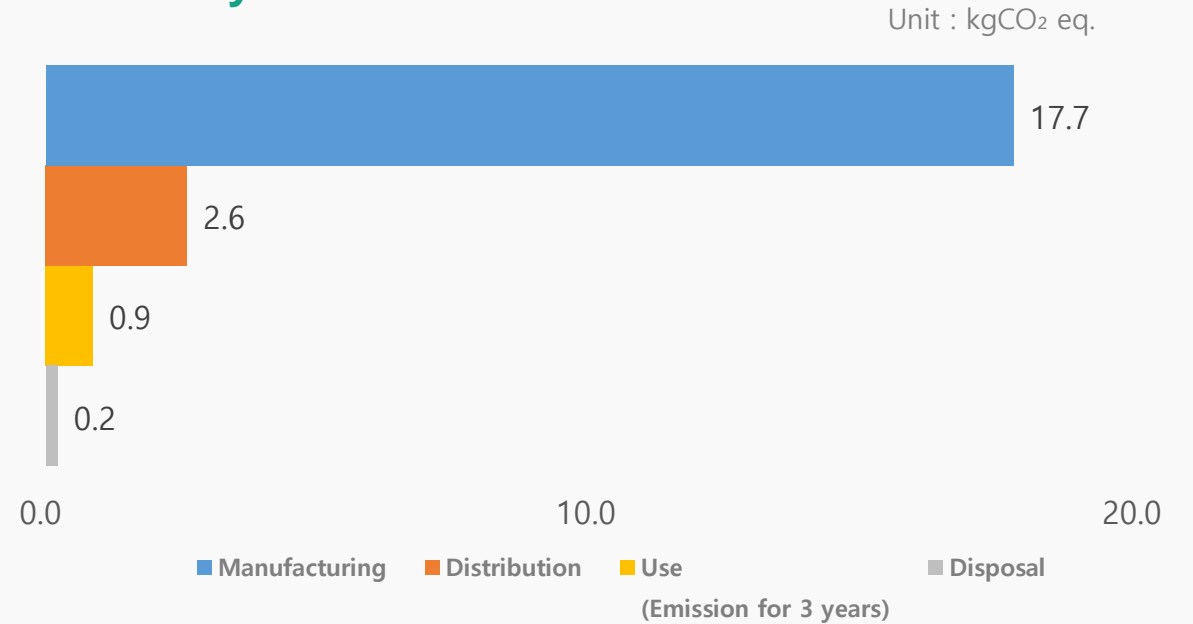
● Global Warming Impact Profile



● Characterized Environment Impact



● Life Cycle Carbon Emissions



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

Life Cycle Assessment for Galaxy Watch7 40mm

● 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

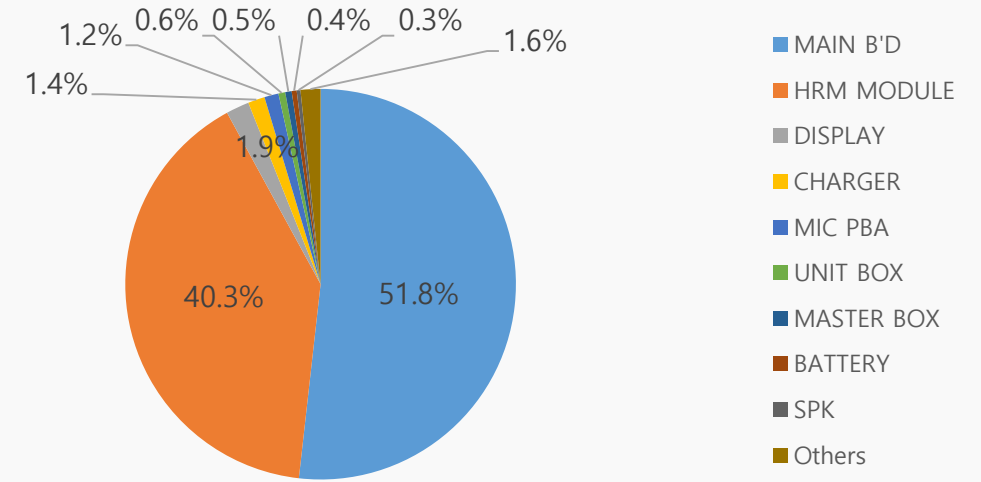
| | |
|-------------------|--|
| Pre-manufacturing | Parts and materials constituting the products and its transportation |
| Manufacturing | Product assembly by Samsung Electronics |
| Distribution | From Vietnam to US |
| Use | 3 years use |
| Disposal | Waste treatment of parts and material |

● Product Features

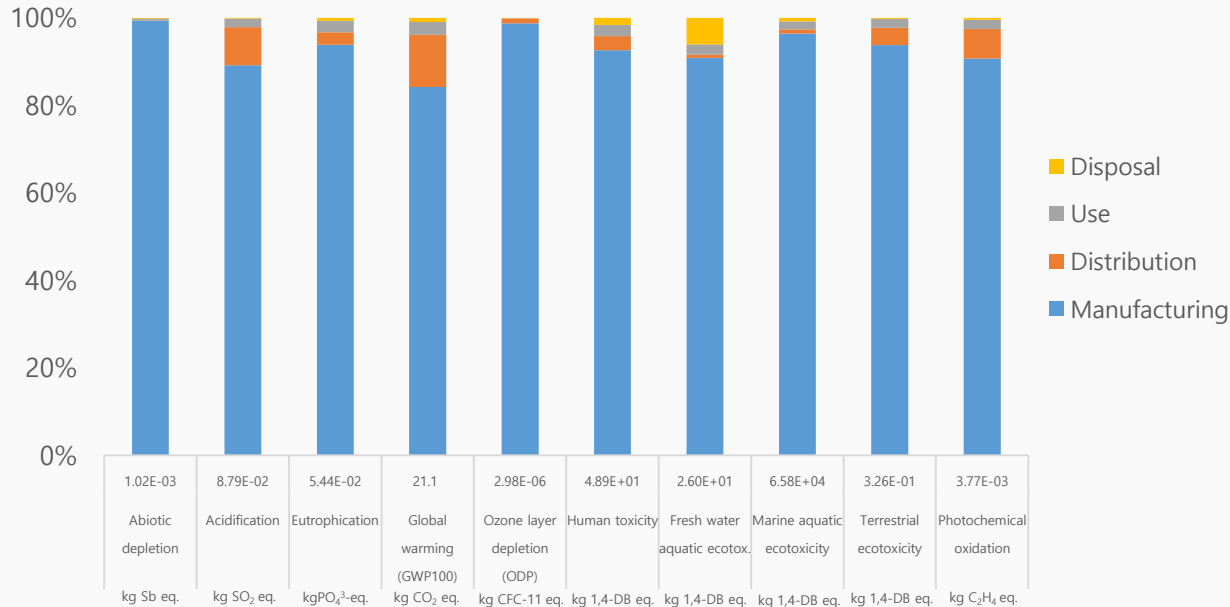


| | |
|------------|---|
| Model name | SM-L305U(Galaxy Watch7 40mm) |
| Dimension | 40.4 x 40.4 x 9.7 mm |
| Display | OLED 1.31" |
| Weight | Product&Acc. : 78.87 g Packages : 155.48 g |

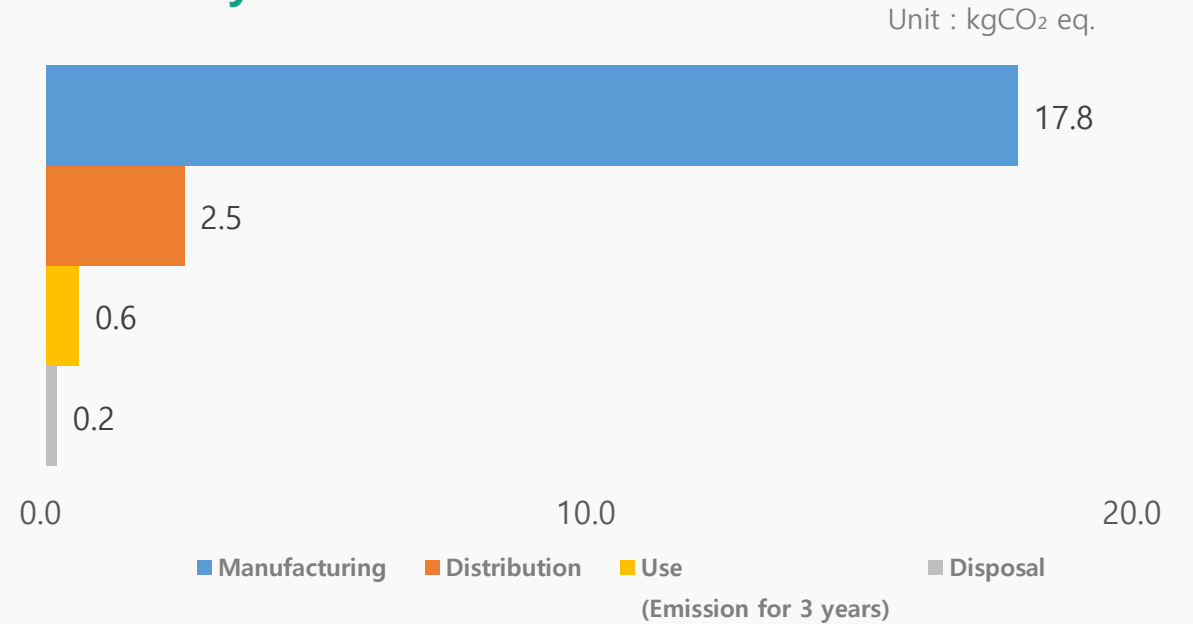
● Global Warming Impact Profile



● Characterized Environment Impact



● Life Cycle Carbon Emissions



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Life Cycle Assessment for Galaxy Watch6 Classic 47mm

● 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; 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 |
| Method for impact assessment | Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 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

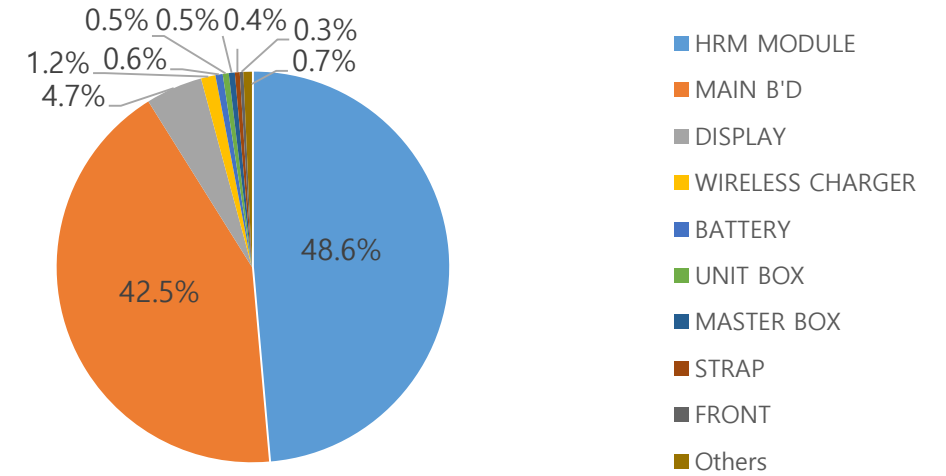
| | |
|-------------------|--|
| Pre-manufacturing | Parts and materials constituting the products and its transportation |
| Manufacturing | Product assembly by Samsung Electronics Vietnam |
| Distribution | From Vietnam to United States |
| Use | 3 years use |
| Disposal | Waste treatment of parts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

● Product Features

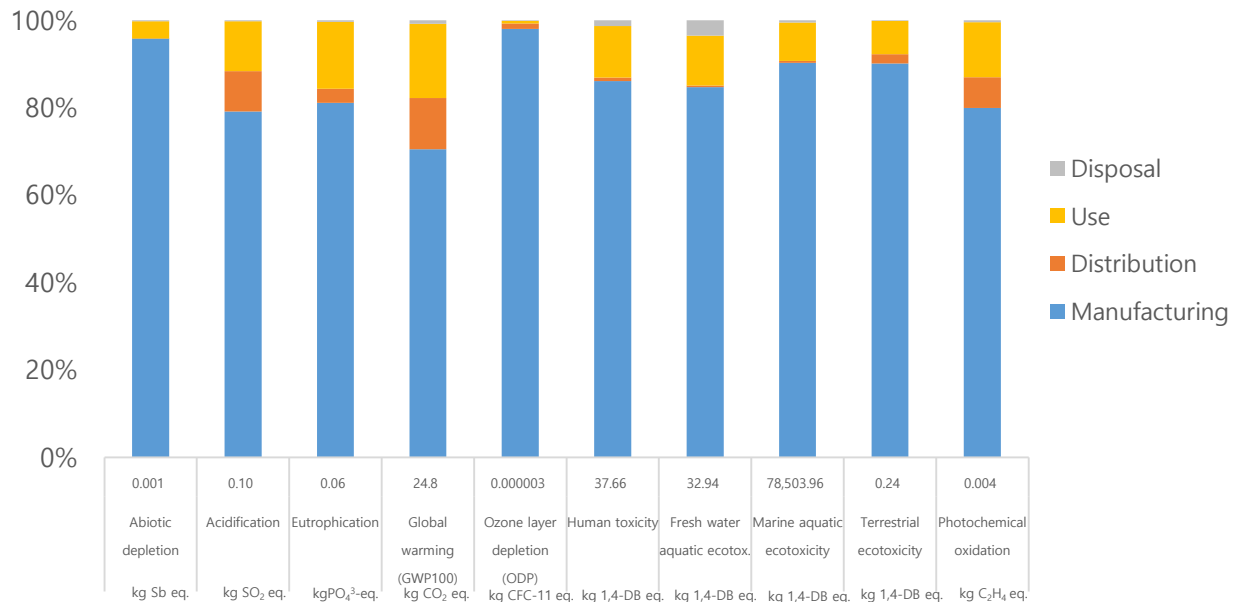


| | |
|--------------------|--|
| Model name | SM-R965U |
| Dimension | 46.5 x 46.5 x 10.8t |
| Display | 1.47"(480x480), 327PPI |
| Weight | Product & Acc. : 110.43g Packages : 161.66g |
| Energy consumption | 2.93 kWh / year |

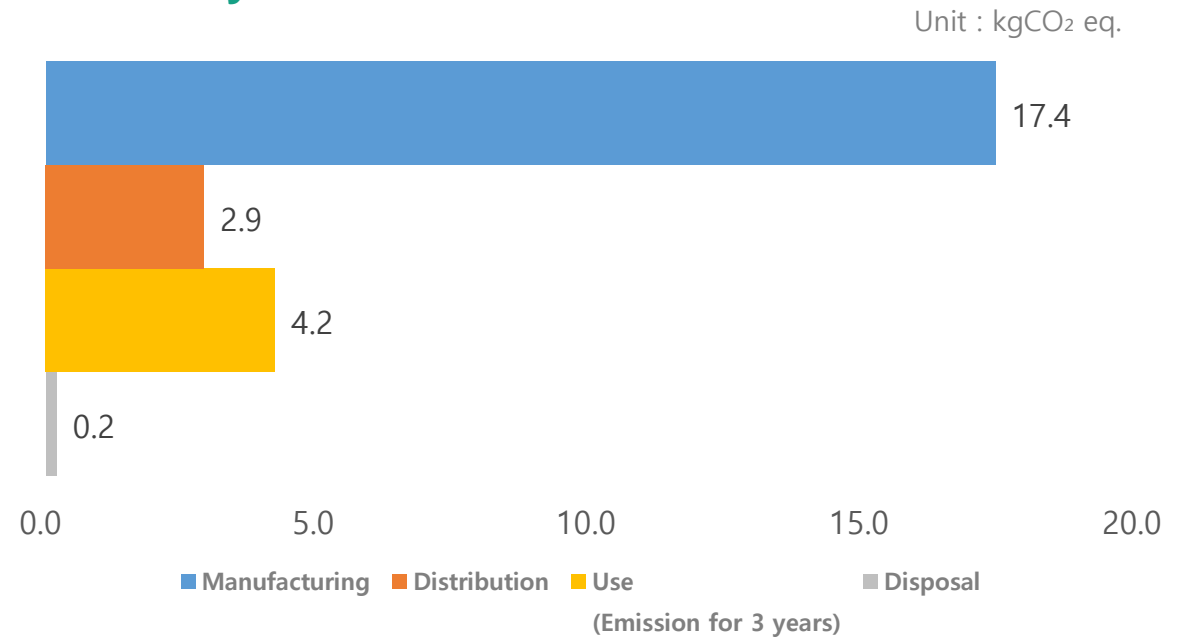
● Global Warming Impact Profile



● Characterized Environment Impact



● Life Cycle Carbon Emissions



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

Life Cycle Assessment for Galaxy Watch6 Classic 43mm

● 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; 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 |
| Method for impact assessment | Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 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

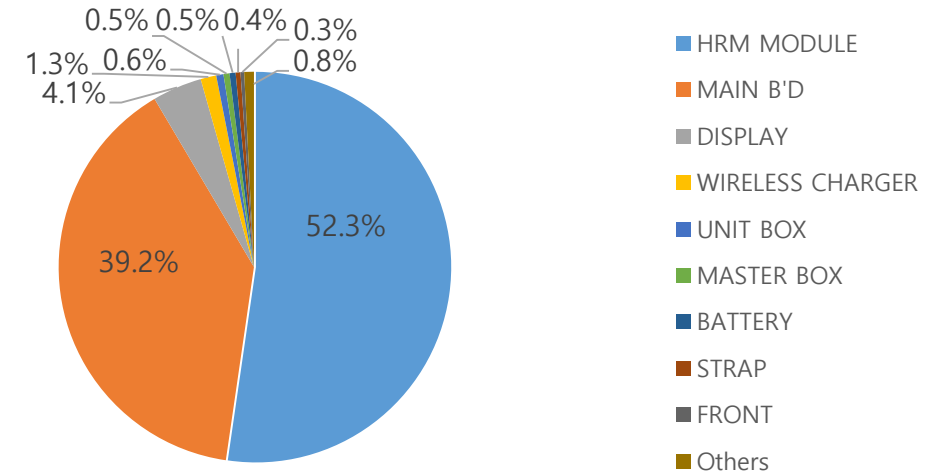
| | |
|-------------------|--|
| Pre-manufacturing | Parts and materials constituting the products and its transportation |
| Manufacturing | Product assembly by Samsung Electronics Vietnam |
| Distribution | From Vietnam to United States |
| Use | 3 years use |
| Disposal | Waste treatment of parts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

● Product Features

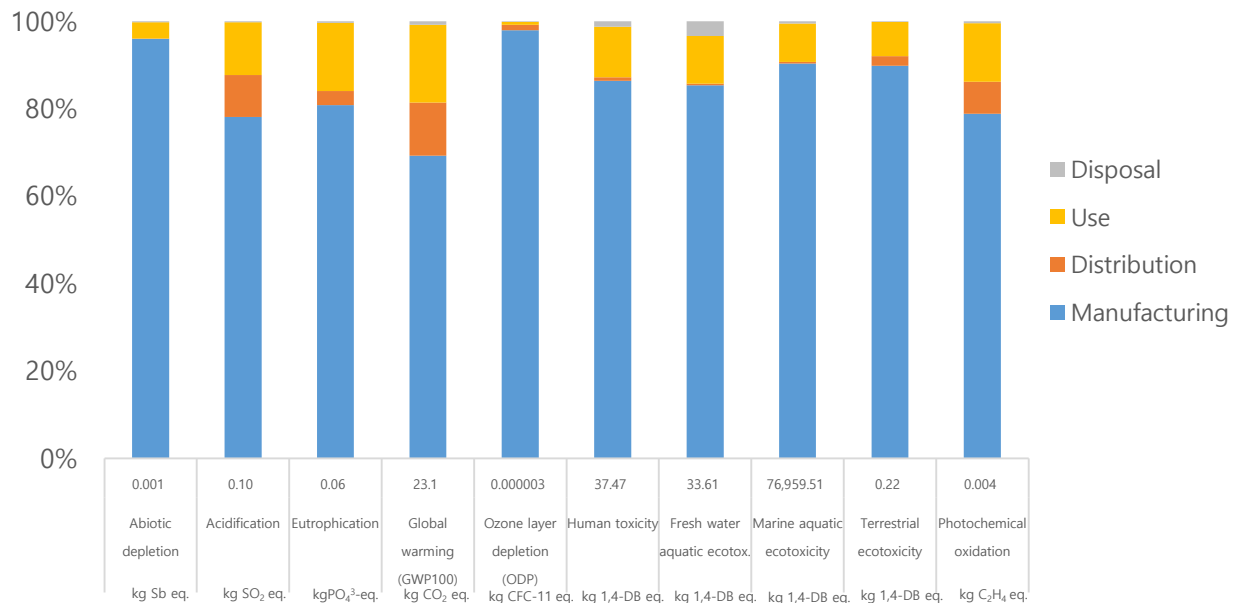


| | |
|--------------------|--|
| Model name | SM-R955U |
| Dimension | 42.5 x 42.5 x 10.8t |
| Display | 1.31"(432x432), 330PPI |
| Weight | Product & Acc. : 103.80g Packages : 157.56g |
| Energy consumption | 2.85 kWh / year |

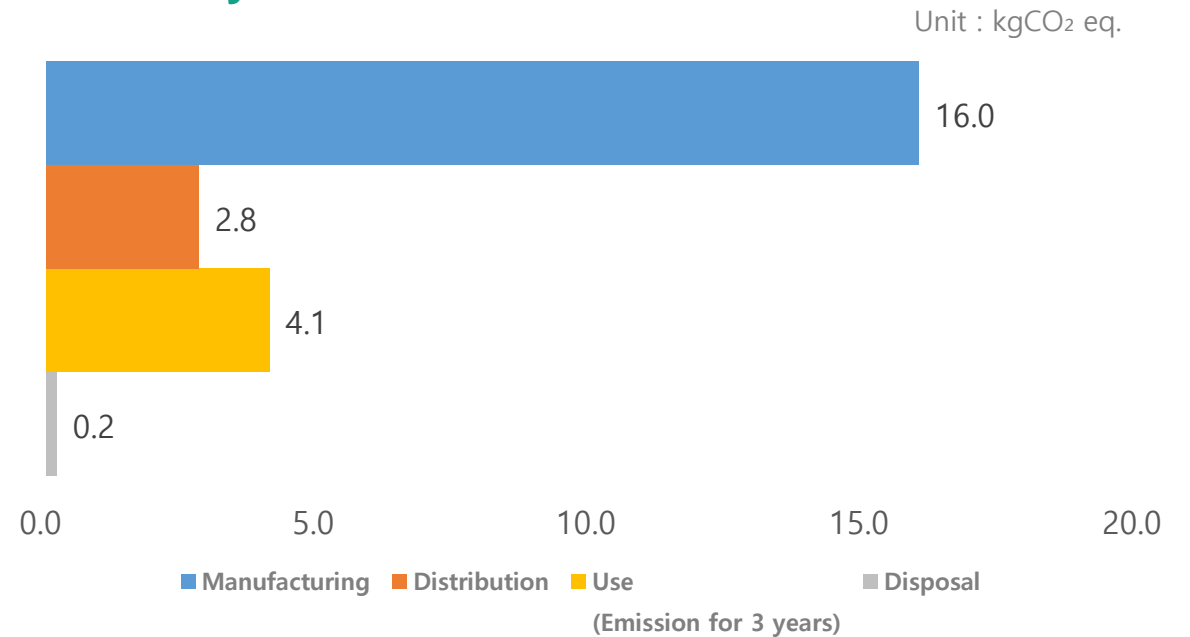
● Global Warming Impact Profile



● Characterized Environment Impact



● Life Cycle Carbon Emissions



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

Life Cycle Assessment for Galaxy Watch6 44mm

● 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; 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 |
| Method for impact assessment | Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 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

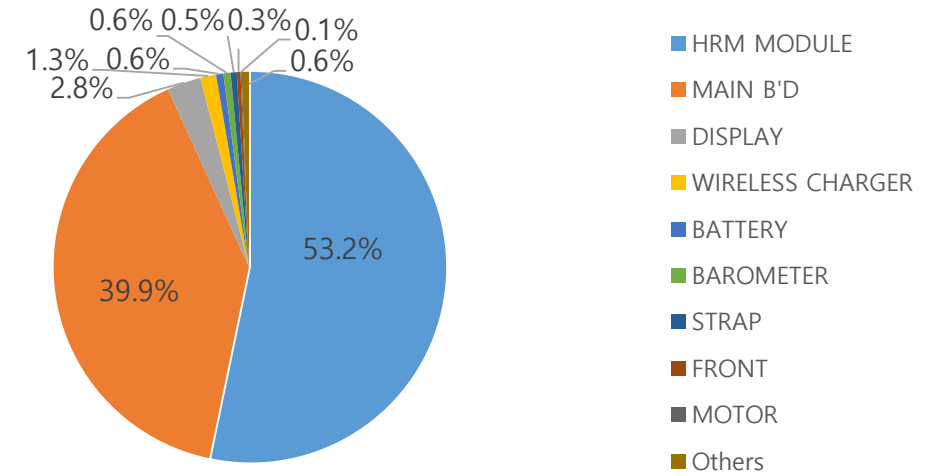
| | |
|-------------------|--|
| Pre-manufacturing | Parts and materials constituting the products and its transportation |
| Manufacturing | Product assembly by Samsung Electronics Vietnam |
| Distribution | From Vietnam to United States |
| Use | 3 years use |
| Disposal | Waste treatment of parts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

● Product Features

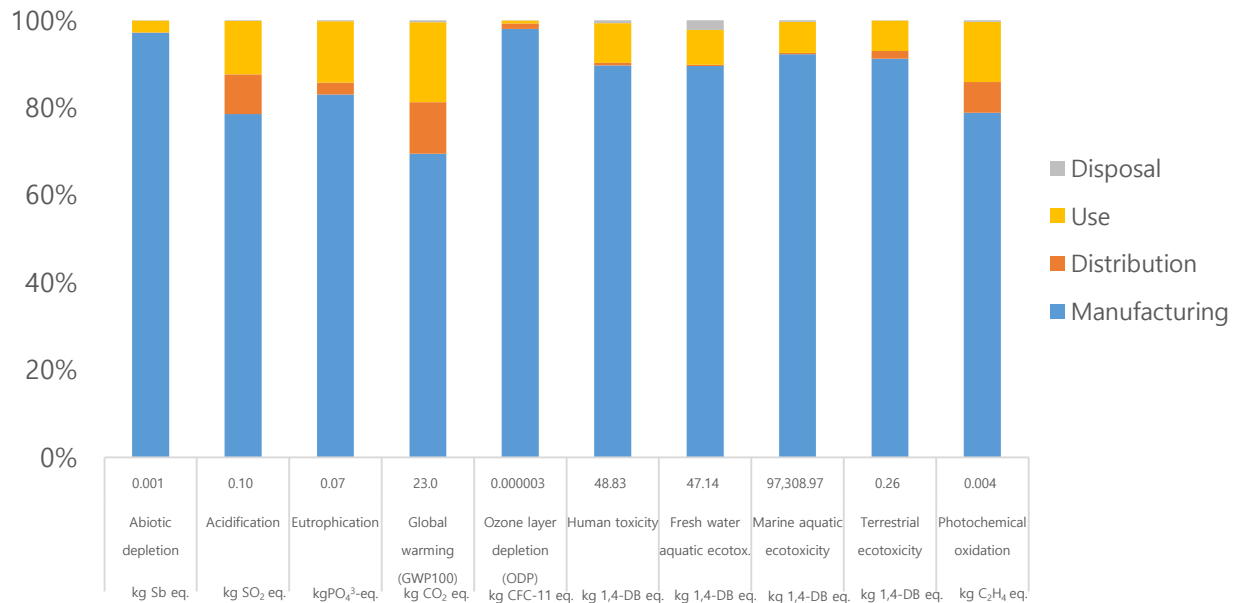


| | |
|--------------------|---|
| Model name | SM-R945U |
| Dimension | 44.4 x 42.8 x 9.0t |
| Display | 1.47"(480x480), 327PPI |
| Weight | Product & Acc. : 85.55g Packages : 163.61g |
| Energy consumption | 2.92 kWh / year |

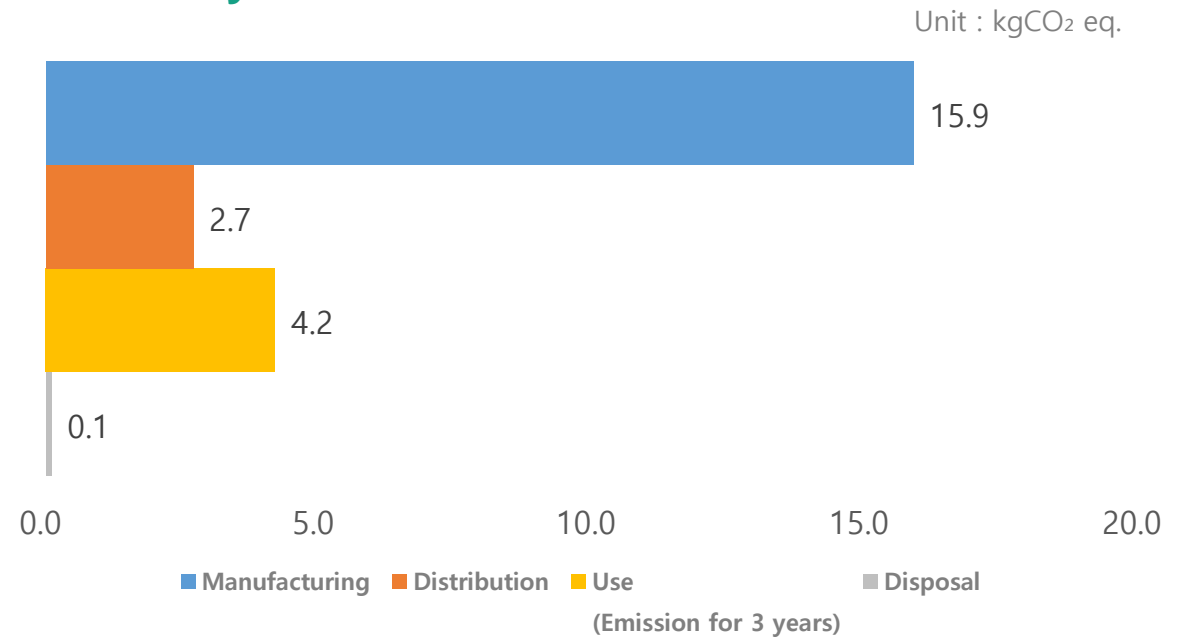
● Global Warming Impact Profile



● Characterized Environment Impact



● Life Cycle Carbon Emissions



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

Life Cycle Assessment for Galaxy Watch6 40mm

● 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; 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 |
| Method for impact assessment | Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 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

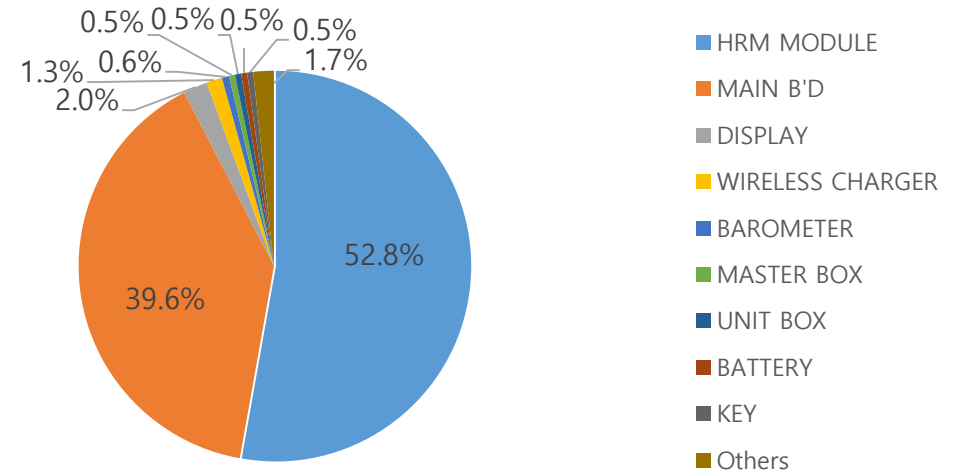
| | |
|-------------------|--|
| Pre-manufacturing | Parts and materials constituting the products and its transportation |
| Manufacturing | Product assembly by Samsung Electronics Vietnam |
| Distribution | From Vietnam to United States |
| Use | 3 years use |
| Disposal | Waste treatment of parts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

● Product Features

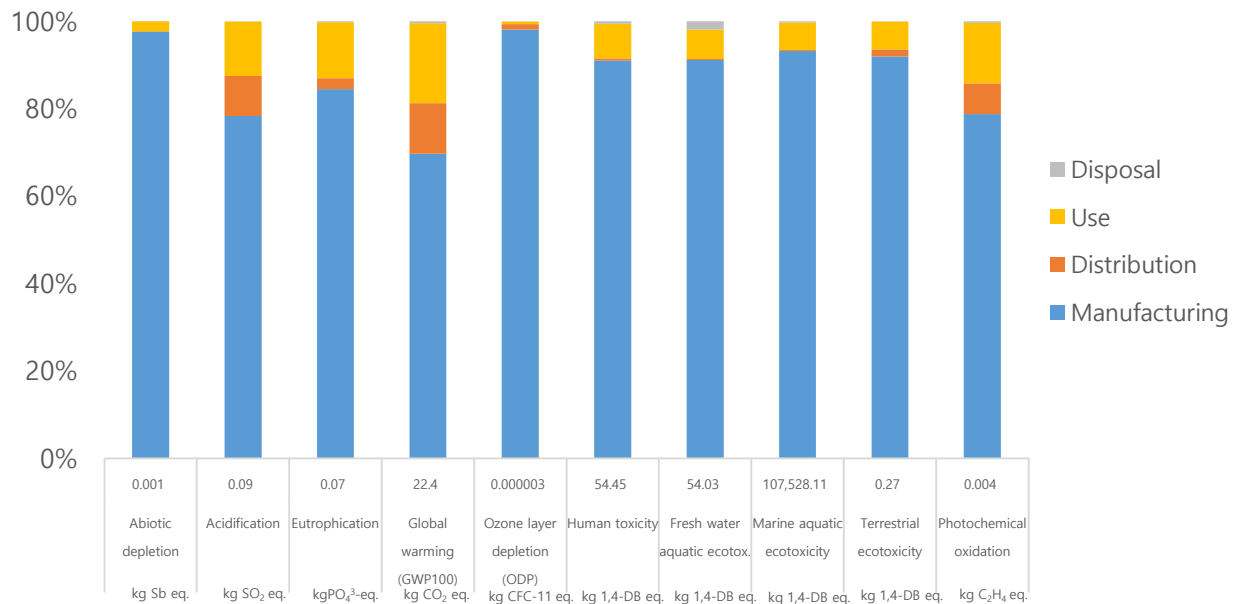


| | |
|--------------------|---|
| Model name | SM-R935U |
| Dimension | 40.4 x 38.8 x 9.0t |
| Display | 1.31"(432x432), 330PPI |
| Weight | Product & Acc. : 79.73g Packages : 162.21g |
| Energy consumption | 2.85 kWh / year |

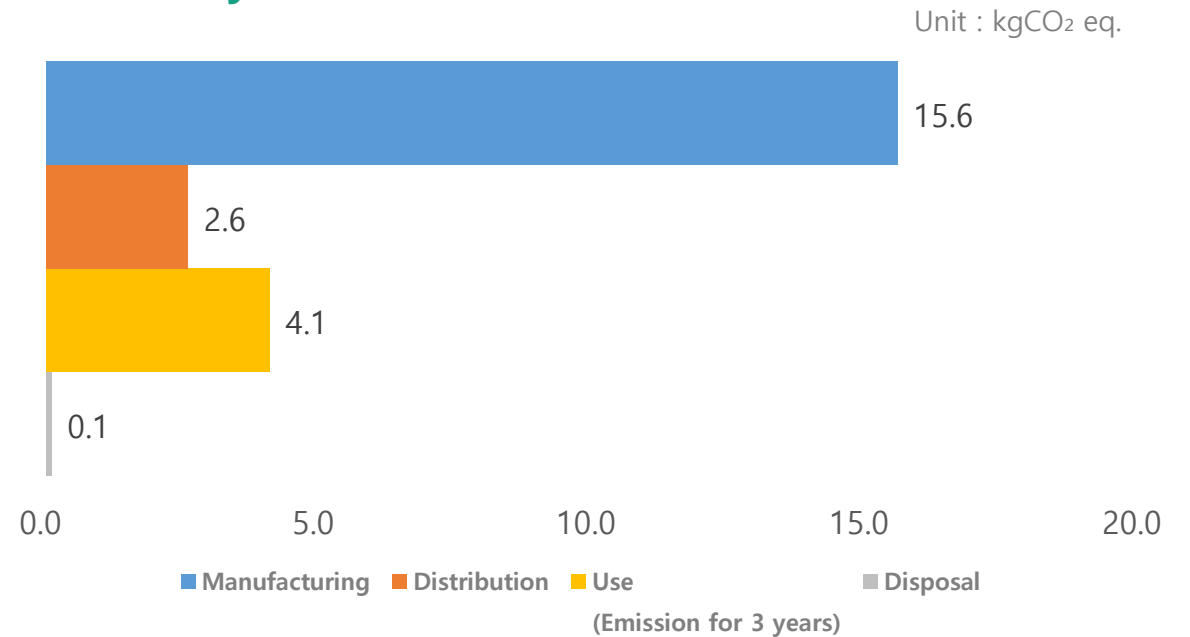
● Global Warming Impact Profile



● Characterized Environment Impact



● Life Cycle Carbon Emissions



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