

Product Environmental Information

Product Description



Product:	Huawei P9
Product type:	Smartphone
Screen:	5.2-inch touch-screen
Weight:	144 grams (handset with battery) 515.6 grams (packaged product, including accessories and packaging)
Dimensions:	145mm(L)×70.9mm(W)×6.95mm(T)

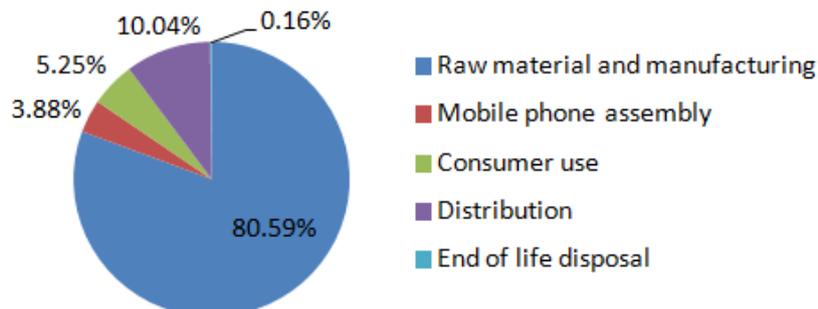
Environmental Impact

- **Carbon Footprint**

Greenhouse gas emissions have an impact on climate change, which is now widely recognized as the major environmental problem facing the globe.

Huawei has established an internal product environment database and a corresponding lifecycle assessment (LCA) approach, in accordance with the ISO 14040 and ISO 14044, to assess a product’s entire lifecycle, from raw material procurement, parts manufacturing, product processing, transportation, and usage, to product waste and recycling. Using the LCA method and assumed distribution and usage scenario, we can determine the impact of each phase of the product’s life cycle on climate change and other aspects of the environment.

The chart below represents the greenhouse gas emissions of the device:



Total greenhouse gas emissions*: 54.7 kg CO₂e

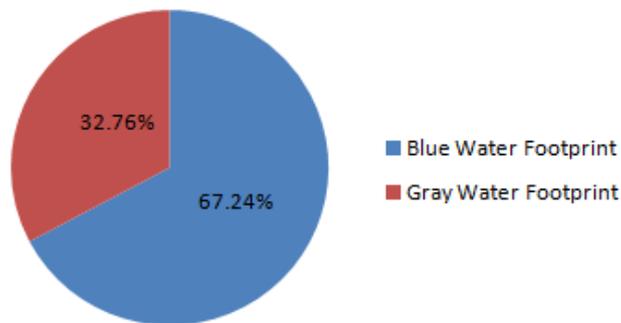
* For the assessment of GHG emissions, the functional unit is defined as the usage of the smartphone (lifetime: 2 years), including its accessories and packaging.

- **Water Footprint**

Freshwater is increasingly becoming a global resource, driven by growing international trade in water-intensive commodities, visualizing the hidden water use behind products can help in understanding the global character of fresh water and in quantifying the effects of consumption and trade on water resources use.

Huawei has assessed the water footprint of the product in accordance with the standard: Water Footprint Assessment manual 2011 released by Water Footprint Network, the assessment is based on the method of cradle-to-gate, from raw material procurement, parts manufacturing to product assembly.

The chart below represents the water footprint of the device, including its accessories and packaging:



Total water footprint: 1230 kg

Note:

The blue water footprint refers to consumption of blue water resources (surface and groundwater) along the supply chain of a product; the grey water footprint refers to pollution and is defined as the volume of freshwater that is required to assimilate the load of pollutants given natural background concentrations and existing ambient water quality standards.

The environmental impact evaluation**, including carbon footprint and water footprint, are based on the configuration of 32GB ROM device and assesses it through the LCA software Simapro Version 8.2.

Restriction of Hazardous Substance

The use of certain hazardous substances has been restricted and the product complies with EU RoHS Directive (2011/65/EU) and REACH (Regulation No 1907/2006), and the product does not contain SVHC substances. The included battery

***The results depend on the assessment method, scoping and assumptions used, are not directly comparable with those conducted by other parties.*

complies with EU Battery Directive (2006/66/EC), packaging complies with EU Packaging Directive (94/62/EC).

Additionally, Huawei has voluntarily restricted the use of many other harmful substances, the product is designed with the following features:

- BFR (Brominated Flame Retardants) free
- CFR (Chlorinated Flame Retardants) free
- PVC free
- Phthalates free
- Antimony trioxide free^{***}
- Beryllium (and its compounds) free

These measures will lessen the impact of the environment, and maximize the recyclability and recoverability of materials.

Environmental Innovation

The product is designed with the following features to reduce environmental impact:

- The plastic part of enclosure(Front cover) contains 30% Bio-based materials.
- Packaging contains up to 80% recycled paper, and the molded pulp tray is made from sugarcane pulp.
- Packaging is FSC-certified.
- The virgin fiber of paper was bleached elemental chlorine free.
- Packaging and user guide are printed with soy ink.

Bio-based plastic and soy ink are materials intentionally made from substances derived from living organisms (as opposed to non-renewable fossil fuels that are made from prehistoric plants), these innovations will help to reduce dependence on fossil fuels.

^{***} *Except the use of antimony trioxide in ceramic and glass component.*

Energy Efficiency

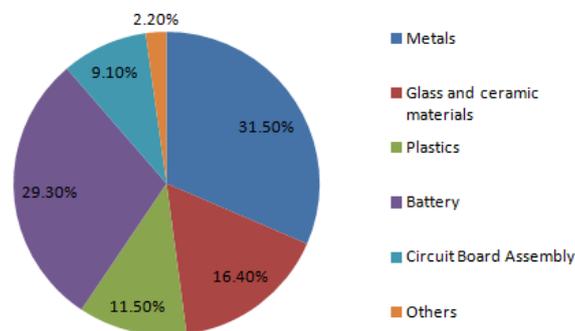
The mobile device uses power-efficient components and software that intelligently manage power consumption, these measures can reduce greenhouse gas emissions of use phase of the device.

In addition, the charger meets energy efficiency requirements of EU ErP Directive (2009/125/EC) and EU Code of Conduct on Energy Efficiency of External Power Supplies.

Materials Used

It has been adequately evaluated the recyclability and recoverability of material and components, and the easiness of product disassembly when designing the product, also, it can minimize the environmental impact by selecting sustainable materials.

The chart below details the materials used to create this mobile phone:



The packaging is made primarily from fiberboard which is highly recyclable, the molded pulp tray is made from sugarcane pulp.

Recycling

To give a new life to used cell phones, promote resource recycling, and protect the environment, Huawei will recycle used cell phones in an eco-friendly way, process electronic wastes through professional recyclers, reduce the electronic waste landfill rate. For more information, please visit: <http://consumer.huawei.com/en/support/recycling/>