



Date introduced

September 1, 2010

Model numbers

MC540, MC544, MC547

Environmental Status Report



iPod touch is designed with the following features to reduce environmental impact:

- Arsenic-free display glass
- Mercury-free LED-backlit display
- · Brominated flame retardant-free
- PVC-free
- · Recyclable stainless steel enclosure
- Power adapter outperforms strictest global energy efficiency standards

iPod touch

Environmental Report

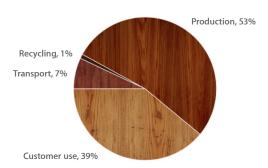
Apple and the Environment

Apple believes that improving the environmental performance of our business starts with our products. The careful environmental management of our products throughout their life cycles includes controlling the quantity and type of materials used in their manufacture, improving their energy efficiency, and designing them for better recyclability. The information below details the environmental performance of iPod touch as it relates to climate change, energy efficiency, restricted substances and material efficiency.

Climate Change

Greenhouse gas emissions have an impact on the planet's balance of land, ocean, and air temperatures. Most of Apple's corporate greenhouse gas emissions come from the production, transport, use, and recycling of its products. Apple seeks to minimize greenhouse gas emissions by setting stringent design-related goals for material and energy efficiency. For example, iPod touch has a 12 percent smaller carbon footprint compared with the previous generation. The chart below provides the estimated greenhouse gas emissions for iPod touch over its life cycle.

Greenhouse Gas Emissions for iPod touch



Total greenhouse gas emissions: 29 kg CO₂e

Energy Efficiency

iPod touch uses power-efficient components and software that intelligently manage power consumption. In addition, the Apple USB Power Adapter (sold separately) outperforms the stringent requirements of the ENERGY STAR® specification for external power supplies. The following table details the energy efficiency of the Apple USB Power Adapter.

Energy Efficiency of the Apple USB Power Adapter

| Mode | 100V | 115V | 230V |
|--------------------------|-------|-------|-------|
| Power adapter no-load | 0.22W | 0.23W | 0.25W |
| Power adapter efficiency | 74% | 75% | 70% |

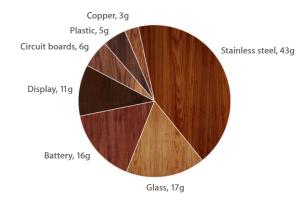
Battery chemistry

System battery: lithium-ion polymer Free of lead, cadmium, and mercury

Material Efficiency

Apple's ultra-compact product and packaging designs lead the industry in material efficiency. Reducing the material footprint of a product helps maximize shipping efficiency. It also helps reduce the energy consumed during production and material waste generated at the end of the product's life. The iPod touch enclosure is made of stainless steel, a material highly desired by recyclers. The chart below details the materials used in iPod touch.

Material Use for iPod touch



iPodrouch

The retail packaging for iPod touch consumes 14 percent less plastic, 17 percent less volume, and is 16 percent lighter than the previousgeneration iPod touch.

Packaging

iPod touch packaging is extremely material efficient, allowing more units to be transported in a single shipping container. The following table details the materials used in iPod touch packaging.

Packaging Breakdown for iPod touch

| Material | Retail box | Retail and shipping box |
|-------------------------------|------------|-------------------------|
| Paper (corrugate, paperboard) | 6g | 115g |
| Polycarbonate | 59g | 59g |
| Other plastics | 2g | 2g |
| | | |

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Restricted Substances

Apple has long taken a leadership role in restricting harmful substances from its products and packaging. As part of this strategy, all Apple products comply with the strict European Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, also known as the RoHS directive. Examples of materials restricted by RoHS include lead, mercury, cadmium, hexavalent chromium, and the brominated flame retardants (BFRs) PBB and PBDE. iPod touch goes even further than the RoHS Directive by incorporating the following more aggressive restrictions:

- · Arsenic-free display glass
- BFR-free
- · Mercury-free LED-backlit display
- · Polyvinyl chloride (PVC)-free



Recycling

Through ultra-efficient design and the use of highly recyclable materials, Apple has minimized material waste at the product's end of life. In addition, Apple offers and participates in various product take-back and recycling programs in 95 percent of the regions where Apple products are sold. All products are processed in the country or region in which they are collected. For more information on how to take advantage of these programs, visit www.apple.com/recycling/.

Definitions

Greenhouse gas emissions: Estimated emissions are calculated in accordance with guidelines and requirements as specified by ISO14040 and ISO14044. Calculation includes emissions from the following life-cycle phases contributing to Global Warming Potential (GWP 100 years) in CO₂ equivalency factors (CO₂e):

- Production: Includes the extraction, production, and transportation of raw materials,
 as well as the manufacture, transport, and assembly of all parts and product packaging.
- Transport: Includes air and sea transportation of the finished product and its
 associated packaging from manufacturing site to continental distribution hubs.
 Transport of products from distribution hubs to end customer is not included.
- Use: User power consumption assumes a three-year period. Product use scenarios are modeled on data that reflects intensive daily use of the product. Geographic differences in the power grid mix have been accounted for at a continental level.
- Recycling: Includes transportation from collection hubs to recycling centers and the energy used in mechanical separation and shredding of parts.

Energy efficiency terms: The energy efficiency values in this report are based on the ENERGY STAR Program Requirements for Single Voltage External AC-DC and AC-AC Power Supplies.

- Power adapter no-load: Condition in which the power adapter is connected to AC power, but not connected to iPod touch.
- Power adapter efficiency: Average of the power adapter's measured efficiency when tested at 100 percent, 75 percent, 50 percent, and 25 percent of the power adapter's rated output current.

Restricted substances: Apple defines a material as BFR-free and PVC-free if it contains less than 900 parts per million (ppm) of bromine and of chlorine.