

SUSTAINABILITY ADVANTAGES OF PERFORMANCE PLASTICS



Light-emitting diodes (LEDs) made with performance plastics use **75%** less energy and last up to **25x** longer than incandescent lighting.

(source: www.energy.gov/eere/ssl/led-adoption-report)

Average smartphone users reach for their phones up to **150X Each Day** — with the potential for hours of device-to-skin exposure. To meet this reality, companies are responding with designs and materials that create durable electronics with extra longevity and sustainable value.



(source: www.eastman.com/Markets/Consumer-Electronics/Device-Housings/Pages/Protective-Cases.aspx)



Using recycled plastic in an electrical/electronic product could reduce the environmental impact of a single product by more than **20%**

(source: https://circulareconomy.europa.eu/platform/sites/default/files/designing_plastics_circulation.pdf)

Recycling one plastic bottle can save enough energy to power a **60W** light bulb for **6 hours**.

(source: <https://repository.upenn.edu/cgi/viewcontent.cgi?article=1030&context=psr>)



75% of consumers say they would pay more for devices made with sustainable materials.

(source: www.eastman.com/Markets/Consumer-Electronics/Device-Housings/Pages/Protective-Cases.aspx)

If all waste electrical and electronic equipment plastics in Europe were recycled, estimated CO₂ emission reductions would be more than **2.5 million** metric tons per year.

(source: https://circulareconomy.europa.eu/platform/sites/default/files/designing_plastics_circulation.pdf)



Covering electrical wires in plastic guarantees that the electrons flowing through the wires will not flow through your body when the wire is touched. Studies show that only **.05 amps** of electric current can cause heart attack and skin damage and high probability of death. The service coming to an ideal house in the U.S. is rated at **200 amps**

(source: <https://www.quora.com/Why-do-electrical-wires-have-plastic-coverings>)