

tjghmxjpik

Product Carbon Footprint Dashboard

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Total Product Carbon Footprint
37.21 kgCO₂e

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37.21 kgCO₂e

per 1.0 unit of tjghmxjpik

Carbon Intensity

74.41 kgCO₂e/kg

Based on product weight of 0.5 kg

Top Material Hotspot

Printed Circuit Board

9.25 kgCO₂e (24.86% of total PCF)

Primary Emission Scope

Scope 3

36.46 kgCO₂e (98.0% of total)

Emission Breakdown

By Lifecycle Stage

Use Phase	64.8%
Materials Acquisition & Pre-processing	32.0%
Production	2.0%
Logistics (Transport)	0.3%
End-of-Life Treatment (Net Saving)	-1.3%

Top Material Carbon Impact (kgCO₂e)

Printed Circuit Board (PCB)	9.25 kgCO ₂ e
Aluminum Housing	1.48 kgCO ₂ e
Lithium-ion Battery (LFP)	0.80 kgCO ₂ e
Plastic Casing (ABS)	0.35 kgCO ₂ e

Key Insights & Hotspots

- The **Use Phase** accounts for the majority of the product's carbon footprint (64.8%), primarily due to energy consumption over its 5-year lifespan.
- **Material Acquisition** is the second largest hotspot (32.0%), driven by high-impact components like Printed Circuit Boards and Aluminum Housing.
- The company's **End-of-Life** take-back program and high recyclability result in a net carbon saving (-1.3%), positively offsetting other emissions.

