

html

Product Carbon Footprint Dashboard for **wktztehfoj**

Total PCF: 38.20 kgCO₂e

Total Product Footprint

38.20 kgCO₂e

Carbon Intensity

32.93 kgCO₂e/kg

Top Material Hotspot

Aluminum Casing (3.75 kgCO₂e)





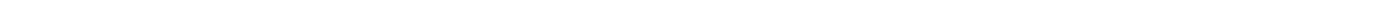
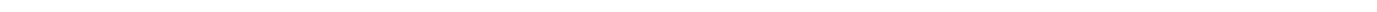
Primary Emission Scope

Scope 3 (98.76%)

Lifecycle Stage Breakdown

Use Phase	81.22%
Materials	19.96%
Production	1.22%
Logistics	0.58%
End-of-Life	-2.98%

Material Carbon Impact (Relative)

Aluminum Casing		3.75 kgCO2e
Circuit Board		1.50 kgCO2e
Li-ion Battery		1.25 kgCO2e
Plastic Housing		0.90 kgCO2e
Pkg. Cardboard		0.20 kgCO2e
Pkg. Plastic Film		0.025 kgCO2e

Key Insights

- Dominant Hotspot: The **Use Phase** is the most significant contributor, accounting for approximately 81.2% of the total product carbon footprint.
- Material Impact: **Purchased Goods & Services (Materials)** contribute nearly 20%, highlighting the importance of sustainable sourcing.
- Circular Economy Success: **End-of-Life treatment** results in net avoided emissions due to high recyclability (85%) and active take-back programs.

Recommended Action Plan

- Enhance **product energy efficiency** and encourage renewable energy use by consumers to mitigate use-phase emissions.
- Prioritize **sustainable material sourcing**, lightweighting, and selection of materials with lower embodied carbon.
- Further strengthen **circular economy initiatives** and explore opportunities to extend product lifespan.