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Product Carbon Footprint for jlkddrwkuo

Total PCF: 37.77 kg CO2e

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Total Product Footprint

37.77 kg CO2e

Per 1.0 unit

Carbon Intensity

37.77 kg CO2e/unit

Functional Unit: 1.0 unit

Top Material Hotspot

Aluminum Casing (80%)

6.0 kg CO2e from materials

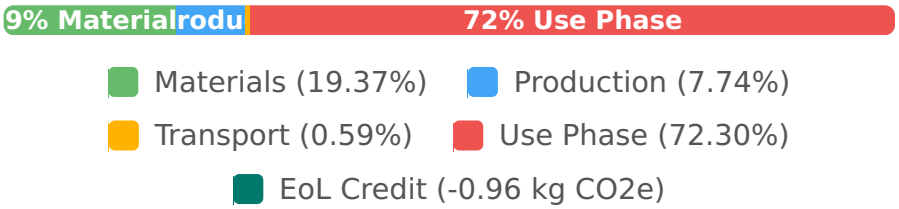
Primary Emission Scope

Scope 3 (89.8%)

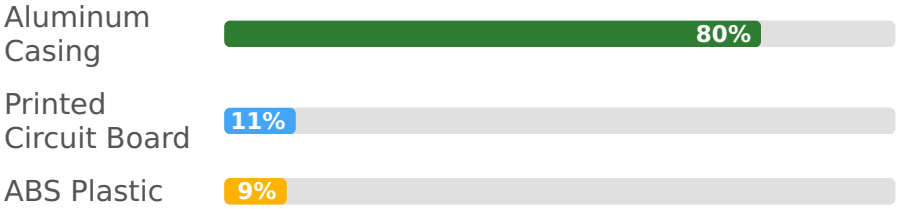
Downstream Use & Upstream Materials

Emission Breakdown

Lifecycle Stage Carbon Contribution



Material Composition vs Carbon Impact



Total carbon from materials: 7.5 kg CO2e

Key Highlights & Insights

- **Use Phase Dominance:** The product's operational use phase accounts for approximately 74% of the total carbon footprint, making it the most significant emission hotspot.
- **Material Impact:** Raw material acquisition, specifically the Aluminum Casing, contributes about 20% of emissions, highlighting the need for sustainable material choices.
- **Circular Economy Potential:** With 80% recyclability and an implemented product take-back scheme, there's significant potential to reduce the net footprint through effective end-of-life management.

Recommendations for Emission Reduction

- **Optimize Use Phase Efficiency:** Focus on designing jlkddrwkuo for maximum energy efficiency during its operational life and educate end-users on optimal usage.
- **Material Decarbonization:** Explore substituting high-impact materials with lower-carbon alternatives or those with higher recycled content.
- **Renewable Energy Procurement:** Continuously increase the percentage of renewable energy used in manufacturing facilities and encourage suppliers to adopt similar practices.
- **Strengthen Circularity:** Actively promote and facilitate the return and recycling of products at their end-of-life to maximize material recovery and minimize waste.