

zgulzwmzwu Carbon Footprint

Product PCF Report for orojplwsqt

126.57 kg CO₂e

Total Product Carbon Footprint

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Total Footprint

126.57 kg CO₂e

Carbon Intensity

126.57 kg CO₂e/unit

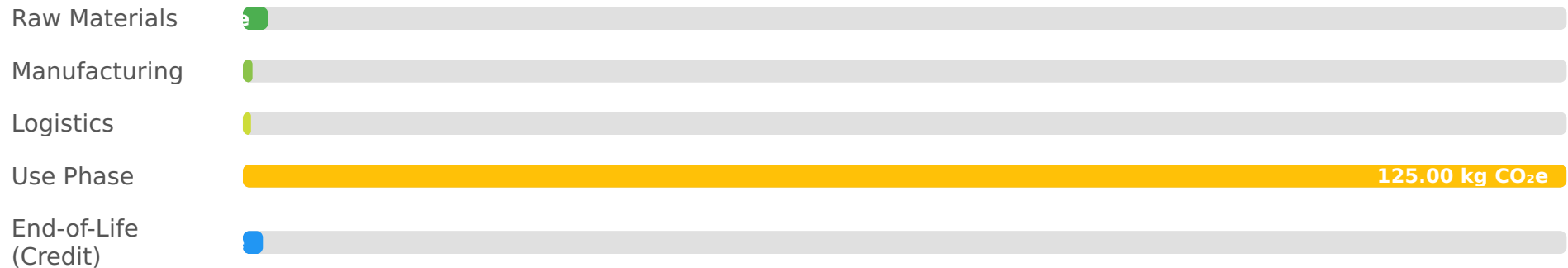
Top Material Hotspot

Aluminum Casing

(1.35 kg CO₂e)

Primary Emission Scope

Lifecycle Stage Breakdown



Highlights

- The **Use Phase** accounts for approximately 98.7% of the total carbon footprint, making it the dominant emission hotspot.
- High recyclability of 80% and an effective take-back program result in a **net carbon credit (-1.91 kg CO₂e)** in the End-of-Life stage.
- Raw Material Acquisition contributes significantly (2.40 kg CO₂e) outside the Use Phase, primarily from materials like **Aluminum Casing** and ABS plastic.

Recommendations for Impact Reduction

1. **Optimize Use Phase Efficiency:**

- Design zgulzwmzwu for even lower energy consumption during its operational lifespan.
- Educate users on energy-saving modes and responsible usage.

2. **Enhance Material Circularity:**

- Increase recycled content (e.g., beyond 50% for aluminum).
- Explore bio-based or lower-impact plastics.
- Strengthen existing take-back programs for maximum material recovery.

3. **Supply Chain Engagement:**

- Collaborate with suppliers to reduce upstream emissions (e.g., sourcing from manufacturers using renewable energy).
- Optimize transport logistics, shifting to lower-carbon freight options where feasible.