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Product Carbon Footprint for opmojoldxr

Total PCF: 37.58 kg CO₂e / unit

System Boundary: Cradle-to-Grave Production Country: China Standard: GHG Protocol

37.58 kg CO₂e

Total Footprint

37.58 kg CO₂e / unit

Carbon Intensity

Aluminum Alloy Casing

Top Material Hotspot

Scope 3 (92.02%)

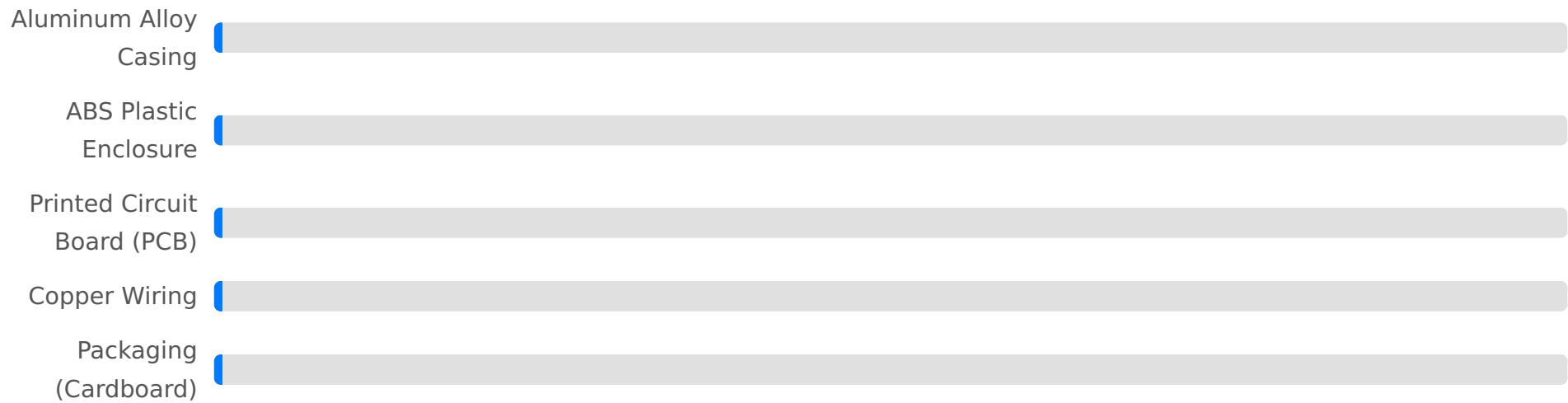
Primary Emission Scope

Lifecycle Stage Breakdown



* End-of-Life shows a net reduction due to effective recycling and take-back programs.

Material Carbon Impact



Highlights & Emission Hotspots

Use Phase Dominates: The product's operational use phase is the largest contributor, accounting for ~66.5% of the total footprint, primarily from electricity consumption.

Material Impact Significant: Material acquisition and pre-processing, particularly for aluminum and electronics, represents the second most significant hotspot at ~29.0%.

Circular Economy Success: The End-of-Life stage demonstrates a net negative emission impact (~4.4% reduction), indicating highly effective recycling and take-back programs.

Recommended Action Plan

Enhance Use Phase Efficiency: Prioritize research and development for more energy-efficient product designs and encourage users to utilize renewable energy sources.

Optimize Material Sourcing: Explore high-recycled content materials, sustainable alternatives, and implement design strategies to reduce overall material intensity.

Transition to Renewable Energy in Manufacturing: Target 100% renewable energy procurement for manufacturing facilities to eliminate Scope 2 emissions entirely.

This interactive dashboard summarizes key findings from the detailed Product Carbon Footprint (PCF) report for "opmojoldxr". All data and calculations are based on the provided report content and illustrative values where specified.