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Product Carbon Footprint for **mzwozüksid**

A detailed sustainability report summary, adhering to GHG Protocol

Total PCF:

25.59 kg CO2e

Total Footprint

25.59 kg CO2e/unit

Carbon Intensity

25.59 kg CO2e/unit

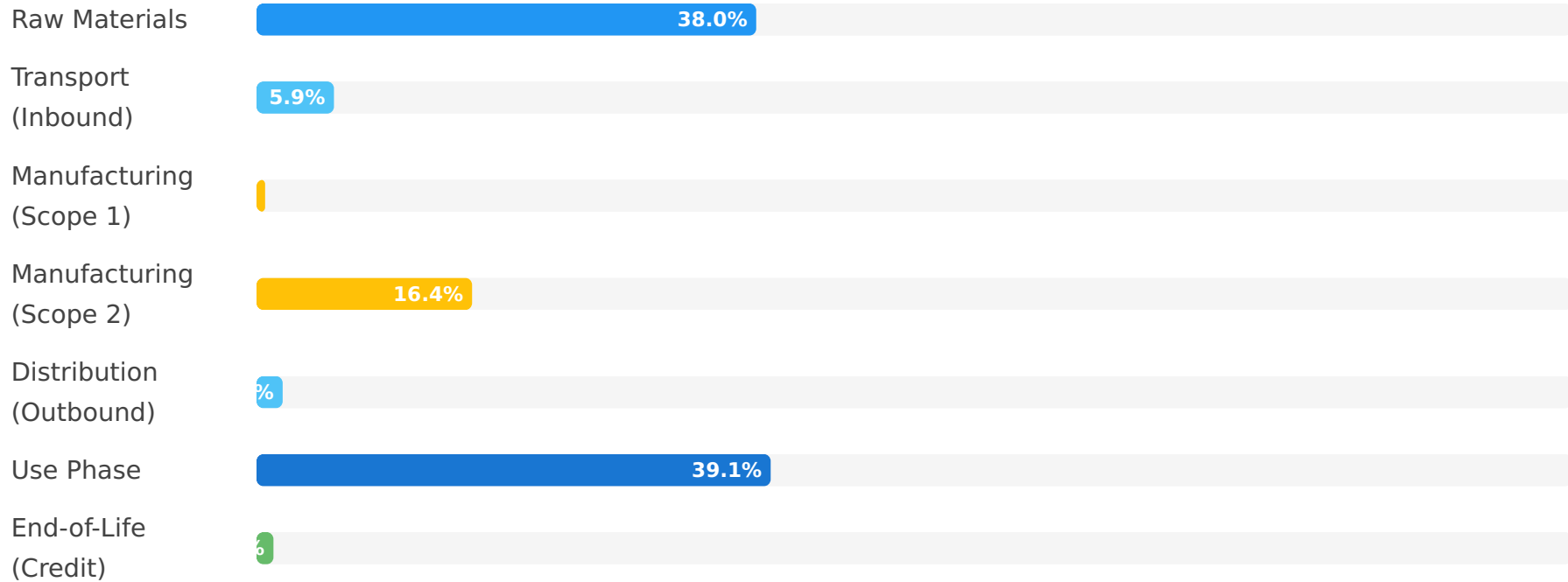
Top Material Hotspot

Raw Materials (38.0%)

Primary Emission Scope

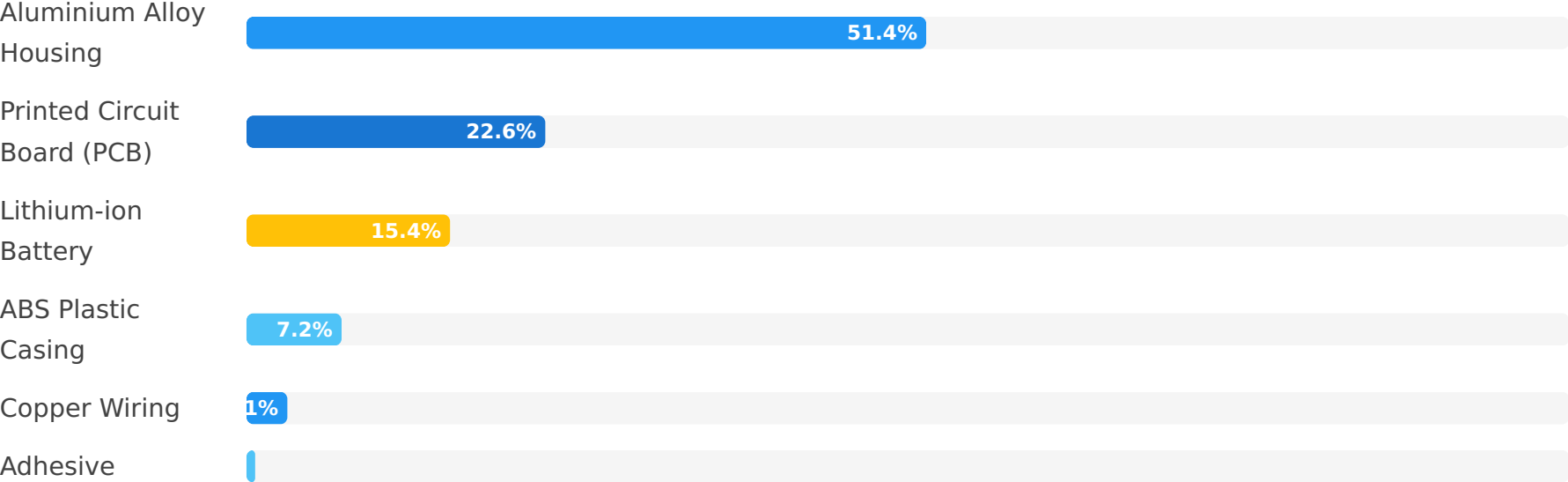
Scope 3 (83.6%)

Lifecycle Stage Breakdown



Material Carbon Impact Breakdown

Based on 9.72 kg CO2e total material impact.



Key Highlights

Use Phase Dominance: The product's operational life accounts for 39.1% (10.00 kg CO2e) of the total footprint, making it the largest single contributor.

Material Impact: Raw Material Acquisition & Pre-processing is a significant hotspot, contributing 38.0% (9.72 kg CO2e) to the overall PCF.

Production Emissions: Manufacturing (Scope 2 - Purchased Electricity) contributes 16.4% (4.20 kg CO₂e), representing a direct operational control point for reduction.

Action Plan for Reduction

Material Optimization: Investigate lower-carbon alternatives and increase recycled content for key materials like Aluminium Alloy Housing and ABS Plastic Casing, which are significant upstream hotspots.

Energy Efficiency in Use: Implement design improvements to drastically reduce mzwokusid's energy consumption during its use phase, and educate consumers on efficient usage.

Decarbonize Production: Accelerate efforts to increase renewable energy usage at the manufacturing facility beyond current levels, including on-site generation or green electricity purchasing.

Circular Economy Enhancement: Maximize collection, refurbishment, and recycling through improved take-back programs and continuous improvement in design for disassembly and material selection.

Supply Chain Engagement: Collaborate closely with key suppliers to obtain more granular, primary data on their emissions and to support their decarbonization initiatives.

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Report generated for mzwozucid adhering to GHG Protocol Standards. Data as of May 25, 2026.