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Product Carbon Footprint Analysis 60.24 kg CO2e for kfkxnhhogk

Total Product Footprint

60.24

Total PCF (kg CO2e)

60.24

Carbon Intensity (kg CO2e/unit)

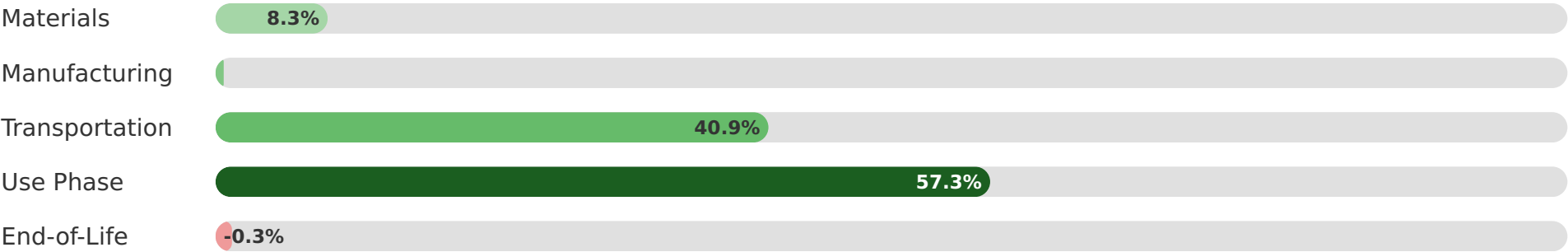
Use Phase

Top Emission Hotspot

Scope 3

Primary Emission Scope

Carbon Footprint by Lifecycle Stage



Key Findings & Highlights

- The **Product Use Phase** is the most significant contributor, accounting for approximately 57.3% of total emissions, primarily due to energy consumption over its lifespan.
- **Transportation**, particularly last-mile delivery, represents a substantial hotspot, contributing around 40.9% of the total footprint.
- **Raw Material Acquisition** and processing contribute about 8.3%, with components like Aluminum and Electronics being key contributors.

Recommendations for Decarbonization

- **Optimize Use Phase:** Focus on improving product energy efficiency or extending product lifespan through modular design and repairability.
- **Re-evaluate Logistics:** Investigate lower-carbon transport modes for both primary and last-mile delivery and optimize routes.
- **Material Innovation:** Explore alternative, lower-carbon materials for high-impact components and engage with suppliers to reduce embedded emissions.
- **Enhance Circularity:** Continue and expand circular economy initiatives to further increase recyclability and material recovery rates.