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Product Carbon Footprint for xttlrrqkt

Report Date: June 3, 2026

22.76
kg CO2e / unit

22.76

Total PCF (kg CO2e/unit)

22.76

Carbon Intensity (kg CO2e/unit)

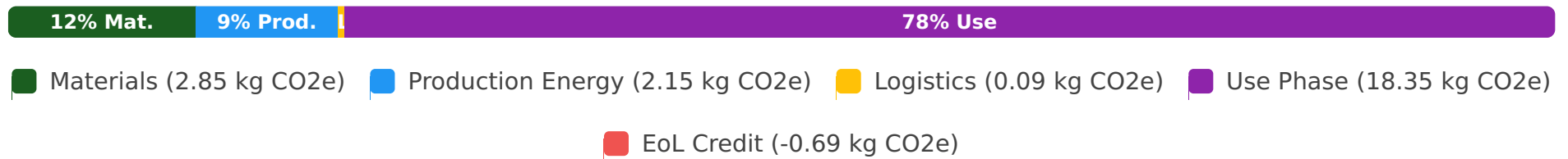
Use Phase

Primary Emission Hotspot

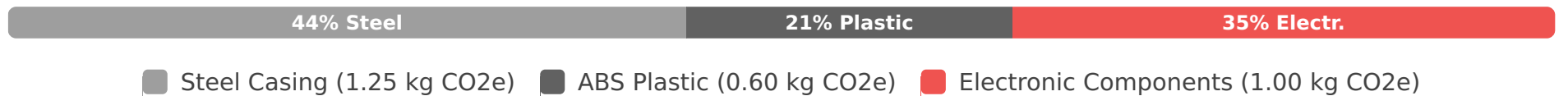
GHG Protocol

Accounting Standard

Lifecycle Stage Breakdown



Material Carbon Impact



Total Upstream Material Impact: 2.85 kg CO2e

Key Insights & Hotspots

- **Use Phase Dominance:** The product's operational lifespan is by far the largest emission contributor, accounting for 18.35 kg CO2e per unit.
- **Material Matters:** Raw material acquisition, primarily for steel and electronics, represents a significant upstream impact of 2.85 kg CO2e per unit.
- **Production Energy:** Purchased electricity for manufacturing is a notable hotspot, contributing 2.15 kg CO2e per unit, highlighting the grid's carbon intensity.
- **Circular Economy Benefits:** End-of-Life recycling efforts result in a net avoided emission (credit) of -0.69 kg CO2e per unit.

Recommendations for Reduction

- **Boost Use Phase Efficiency:** Prioritize R&D for substantial reductions in energy consumption during the product's 5-year lifespan.
- **Green Material Sourcing:** Shift towards suppliers offering lower-carbon steel, plastics, and electronics, with a focus on recycled content and renewable energy in their production.
- **Renewable Manufacturing:** Increase renewable energy adoption at manufacturing sites in China to further decrease Scope 2 emissions.
- **Strengthen Circularity:** Expand take-back programs and invest in advanced recycling to maximize material recovery beyond current rates.