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# dxrimrymlw Product Carbon Footprint

Report by jkvznpilye - Generated May 26, 2026

**38.19 kg CO<sub>2</sub>e**

Total Product Footprint

TOTAL FOOTPRINT

**38.19 kg CO<sub>2</sub>e**

CARBON INTENSITY

**38.19 kg CO<sub>2</sub>e / unit**

TOP MATERIAL HOTSPOT

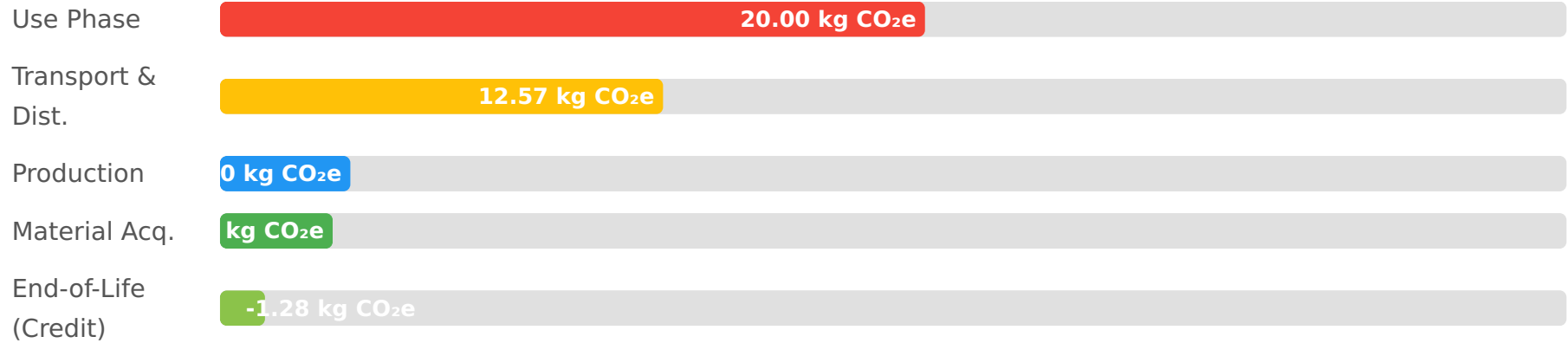
**Circuit Board**

PRIMARY EMISSION SCOPE

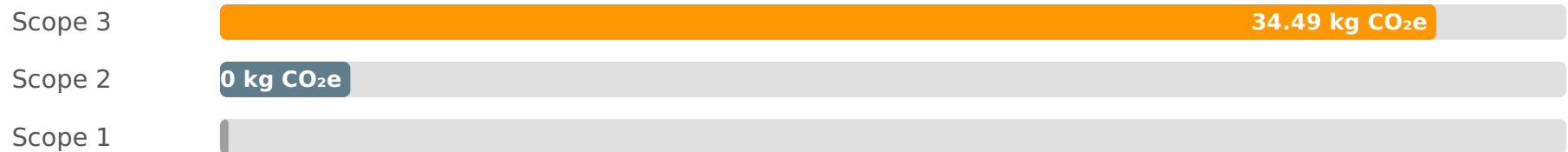
**Scope 3 (90%)**

# Emissions Breakdown

## By Lifecycle Stage



## By GHG Protocol Scope



## Key Highlights

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- The **Use Phase** is the dominant emission hotspot, accounting for over half of the product's total carbon footprint (20.00 kg CO<sub>2</sub>e).
- **Scope 3 emissions** (indirect value chain emissions) represent approximately 90% of the total footprint, highlighting the importance of supply chain and downstream impact management.
- **Transport & Distribution**, particularly last-mile delivery, is a significant contributor, necessitating logistics optimization.

## Action Plan: How to Reduce Impact

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- **Optimize Product Energy Efficiency:** Focus on designing the product for lower energy consumption during its operational lifespan to tackle the largest hotspot.
- **Decarbonize Logistics:** Explore switching to lower-emission transport modes (e.g., rail, sea, electric vehicles for last-mile) and partner with green logistics providers.
- **Sustainable Material Sourcing:** Investigate and integrate materials with lower embodied carbon, and prioritize increased recycled content in components.
- **Boost Green Manufacturing:** Enhance the adoption of renewable energy sources in production facilities beyond current levels and drive process efficiencies to reduce overall energy intensity.

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