html

carboncalcpcf.com

Product Carbon Footprint Dashboard

For Product: **pvlxmmqefy** by **ptninlqngd**

13.368 kgCO2e	1.0 unit	May 27, 2026	GHG Protocol
Total PCF	Functional Unit	Generated Date	Standard

Key Metrics

13.368 kgCO2e

Total Carbon Footprint

13.368 kgCO2e/unit

Carbon Intensity

Top Emission Hotspot

Use Phase

Contributing 84.1% of total emissions.

Scope 3

Primary Emission Scope

(Includes Material Acquisition & Use Phase)

Lifecycle Stage Breakdown

Use Phase	**84.16%**
Material Acquisition	**14.44%**
Transport	**2.80%**
Manufacturing (S1+S2)	**1.44%**
End-of-Life (Net Credit)	**-2.82%**

Material Carbon Impact (Relative)

Electronic Components	**38.86%**
Steel Casing	**25.91%**
Plastic Housing	**24.87%**
Copper Wiring	**6.22%**
Packaging (Cardboard)	**4.15%**

Highlights & Hotspots

- The **Use Phase** accounts for a staggering 84.1% of the product's total carbon footprint, making it the primary area for emission reduction efforts.
- **Material Acquisition**, particularly for electronic components and steel, contributes significantly (14.4%) to upstream Scope 3 emissions.
- While smaller, **Transport & Distribution** (2.8%) offers opportunities for optimization through mode shifts and route planning.

Recommendations for ptninlqngd

1. **Prioritize Use Phase Efficiency:** Redesign pvlxmmqefy to drastically reduce energy consumption during operation through more efficient components or low-power modes.
2. **Engage Supply Chain for Materials:** Source lower-carbon materials or those with higher recycled content, and work with suppliers for primary emission data.
3. **Optimize Logistics:** Investigate multimodal transport options (e.g., rail/sea over road) and optimize route planning to reduce transport emissions.
4. **Enhance Circularity:** Maximize recycling and reuse through existing take-back programs, aiming for higher than 60% recyclability.