carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: **vyynrzgmgf**

Company: **roqsonlmpr**

66.36 kg CO2e

Total PCF per 1.0 unit (Net)

Total Product Footprint

66.36 kg CO2e

per 1.0 unit (factory_gate)

Carbon Intensity

66.36 kg CO2e/unit

Normalized per functional unit

Primary Emission Scope

Scope 3

94.7% of total PCF

Top Material Hotspot

Aluminum Frame

10.5 kg CO2e in purchased goods

Lifecycle Stage Breakdown (Gross Emissions)

Materials (34.2%) Production (5.2%) Transportation (1.1%) Use Phase (59.5%)

*Gross emissions. End-of-Life provides a credit of -0.87 kg CO2e, leading to a net PCF of 66.36 kg CO2e.

Material Carbon Impact (Purchased Goods)

Aluminum Frame

Electronic Comp.

Plastic Casing

Internal Wiring

Key Insights & Hotspots

- The **Use Phase** of vyynrzgmgf is the largest contributor to its carbon footprint, accounting for approximately 60% of gross emissions. This indicates product energy efficiency is paramount.

- **Purchased Goods and Services** (raw materials), particularly Aluminum and Electronic Components, represent the second major hotspot at around 34.6% of gross emissions. Sustainable sourcing is crucial.
- A robust **End-of-Life program**, including high recyclability and take-back initiatives, provides a significant credit of -0.87 kg CO2e, reducing the overall net PCF.

Recommended Action Plan

1. **Optimize Use Phase Efficiency:** Invest in R&D to drastically improve the product's energy consumption during operation and aim to extend its useful lifespan.
2. **Strategic Sustainable Sourcing:** Collaborate with suppliers to identify and integrate lower-carbon materials, especially for high-impact components like Aluminum and Electronics.
3. **Decarbonize Manufacturing Energy:** Accelerate the transition to 100% renewable energy for manufacturing operations in China to further reduce Scope 2 emissions.
4. **Enhance Circularity & Data:** Continue to strengthen circular economy initiatives and seek primary data for transport, energy mixes, and specific material EFs for future, more precise assessments.