

html

Product Carbon Footprint Dashboard

carboncalcpcf.com

Product: gvlvxwxgkq

Total PCF:

34.46 kg CO₂e

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34.46 kg CO₂e

System Boundary

Cradle-to-grave

Production Country

China

Standard

GHG Protocol

Emissions Breakdown

Lifecycle Stage Contribution

(excluding EoL Credit)

Materials (49.7%) Production (13.5%) Logistics (3.5%) Use Phase (27.5%)

Note: End-of-Life activities contribute a significant net credit of **-8.78 kg CO2e** due to high recyclability and circular programs.

Material Carbon Impact



Key Insights

Materials Acquisition & Production represents the largest emission hotspot, contributing **21.50 kg CO2e**.

Recommendations for Carbon Reduction

- **Material Optimization:** Prioritize sourcing lower-carbon alternative materials or those with higher recycled content.
- **Manufacturing Efficiency:** Increase renewable energy adoption (beyond 70%) and improve overall energy efficiency in production processes.
- **Use Phase Impact:** Implement design modifications to reduce product energy consumption and extend lifespan.
- **Circular Economy:** Strengthen existing take-back programs and further enhance recyclability percentages to maximize avoided emissions.
- **Logistics Optimization:** Explore more efficient transport modes and optimize routes for inbound and outbound logistics.