

CARBONCALPCF.COM

Product Carbon Footprint Dashboard

Product: nfqkzsjmln

Company: grvqjsjlzn

Consultant: mvvdfxxvfj

13.622 kg CO2e / unit

TOTAL FOOTPRINT

13.622 kg CO2e

CARBON INTENSITY

13.622 kg CO2e/unit

TOP MATERIAL HOTSPOT

ABS Plastic (0.90 kg CO2e)

PRIMARY EMISSION SCOPE

Scope 3 (Use Phase)

Lifecycle Emission Breakdown



Use Phase (10.00 kg CO2e): The most significant contributor, largely due to energy consumption over its assumed 5-year lifespan.

Manufacturing/Production (1.83 kg CO2e): Emissions from purchased electricity in China represent the second-largest hotspot.

Material Acquisition & Pre-processing (1.53 kg CO2e): The choice of raw materials, particularly ABS Plastic Casing, contributes substantially.

Recommendations for Reduction

- 1 Optimize Use Phase Efficiency:** Focus on product design for enhanced energy efficiency and educate consumers on responsible energy use.
- 2 Decarbonize Manufacturing:** Increase renewable energy procurement at the China manufacturing facility and explore lower-carbon electricity grids.
- 3 Sustainable Material Sourcing:** Prioritize materials with lower embodied carbon, increased recycled content, and innovative alternatives.
- 4 Enhance Circularity:** Leverage existing circular/take-back programs to maximize product longevity and recycling.
- 5 Logistics Optimization:** Investigate opportunities for more efficient transport modes, optimized routes, and consolidated shipments.