

Product Carbon Footprint Dashboard

for **nemhnykle** by tpxzjnprjt

Standard: GHG Protocol | Production Country: China

22.21 kg CO₂e

Total Product Carbon Footprint (1 unit)

22.21 kg CO₂e

Total Footprint

56.3%

From Use Phase

Aluminum Casing

Top Material Hotspot

Net Credit

End-of-Life Impact

Carbon Footprint by Lifecycle Stage

Raw Materials (Scope 3, Cat 1) **9.09 kg CO₂e (40.9%)**

Manufacturing Energy (Scope 2) **1.05 kg CO₂e (4.7%)**

Transportation (Scope 3, Cat 4 & 9) **0.27 kg CO₂e (1.2%)**

Use Phase (Scope 3, Cat 11) **12.50 kg CO₂e (56.3%)**

Recommendations for Decarbonization

- 1 Enhance Use Phase Efficiency:** Redesign for ultra-low energy consumption; provide clear guidance for consumers on efficient usage.
- 2 Sustainable Material Sourcing:** Prioritize materials with lower embodied carbon, focusing on aluminum and silicon, and increase recycled content.
- 3 Boost Renewable Energy:** Aim for 100% renewable energy procurement for manufacturing operations in China to eliminate Scope 2 emissions.
- 4 Strengthen Circular Initiatives:** Continue expanding take-back and recycling programs to maximize material recovery and environmental credits.