

html

Product Carbon Footprint Dashboard

Product: zedgxsxxzz

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Total PCF: 42.521 kg CO2e/unit

Total Footprint

42.521 kg CO2e

per 1.0 unit (factory_gate)

Carbon Intensity

42.521 kg CO2e/unit

normalized by functional unit

Top Emission Hotspot

Use Phase






86.4% of total (before EoL credits)

Primary Emission Scope

Scope 3

40.213 kg CO2e (94.6% of total)

Carbon Footprint by Lifecycle Stage

Material Production		10.000 kg CO2e (23.5%)
Manufacturing Energy		2.308 kg CO2e (5.4%)
Transport		0.388 kg CO2e (0.9%)
Use Phase		36.750 kg CO2e (86.4%)
End-of-Life (Net)		-6.925 kg CO2e (-16.3%)

Key Insights & Hotspots

- **Use Phase Dominance:** The product's operational life accounts for 86.4% of the total carbon footprint (before EoL credits), making it the most significant emission hotspot.
- **Material Impact:** Material production contributes 23.5% of the total PCF (before EoL credits), highlighting the need for sustainable material sourcing.
- **Scope 3 Importance:** Indirect emissions across the value chain (Scope 3) represent the vast majority (94.6%) of the total PCF, requiring comprehensive supply chain engagement.

Recommendations for Reduction

- **Enhance Energy Efficiency in Use:** Prioritize design for ultra-low energy consumption during the product's 7-year lifespan, incorporating smart features and optimized power modes.
- **Optimize Material Sourcing:** Investigate and implement alternative materials with lower embodied carbon, focusing on lightweighting and increasing recycled content.
- **Increase Renewable Energy in Production:** Aim for 100% renewable energy in China-based manufacturing facilities to further reduce Scope 2 emissions beyond the current 60%.
- **Strengthen Circularity Programs:** Leverage existing take-back programs (iqxfodinho) to improve recyclability beyond 70% and extend product longevity.