

html

carboncalcpcf.com

Product Carbon Footprint Dashboard

for uqotfskvry by pxjgrdzokt

67.464 kg CO₂e

Total Carbon Footprint per functional unit

Total Footprint

67.464 kg CO₂e

For 1.0 unit (cradle-to-grave)

Carbon Intensity

67.464 kg CO2e/unit

Aligned with GHG Protocol

Top Material Hotspot

ABS Plastic

1.565 kg CO2e (out of 4.975 kg CO2e materials)

Primary Emission Scope

Scope 3

66.112 kg CO2e (Value Chain Emissions)

Recommendations for Carbon Reduction

1. Prioritize Use Phase Optimization

2. ****Energy Efficiency:**** Implement engineering design improvements to drastically reduce the product's energy consumption during its 5-year lifespan.
3. ****Renewable Energy:**** Encourage end-users to power the product with renewable energy and explore carbon offset programs for the use phase.

4. Material Decarbonization

5. ****Low-Carbon Materials:**** Investigate and switch to lower-carbon alternatives for ABS plastic (e.g., recycled, bio-based) and other high-impact materials like aluminum.
6. ****Supplier Engagement:**** Collaborate with suppliers to obtain primary emission data and promote their decarbonization efforts.

7. Enhance Circularity

8. ****Boost Recyclability:**** Explore increasing the recyclability percentage beyond 75% through design for disassembly and material separation.
9. ****Strengthen Take-back Programs:**** Maximize the efficiency of existing take-back and refurbishment initiatives to further reduce demand for virgin resources.

