

Product Carbon Footprint for ejlfjmlmnu

carboncalcpcf.com

Total PCF (Cradle-to-Grave)

130.27 kg CO2e

1.0

Functional Unit

China

Production Country

GHG Protocol

Standard Applied

7 Years

Product Lifespan

40%

Renewable Energy Usage

60%

Recyclability

Total Carbon Footprint

130.27

kg CO2e / unit

Carbon Intensity

130.27

kg CO2e / unit

Primary Emission Hotspot

Use Phase

60.41% of Total

Primary Emission Scope

Scope 3 Downstream

60.41% of Total

Lifecycle Stage Breakdown

Materials Acquisition & Pre-processing	25.00 kg CO2e (19.19%)
Manufacturing/Production	26.10 kg CO2e (20.03%)
Transport (Distribution)	25.41 kg CO2e (19.50%)
Use Phase	56.70 kg CO2e (43.53%)
End-of-Life (EoL)	-2.94 kg CO2e (-2.26%)

Emissions Breakdown by GHG Scope

Scope 1 (Direct Emissions)	0.00 kg CO2e (0.00%)
Scope 2 (Purchased Electricity - Production)	26.10 kg CO2e (20.03%)
Scope 3 (Upstream - Materials & Transport)	25.48 kg CO2e (19.56%)
Scope 3 (Downstream - Transport, Use, EoL)	78.69 kg CO2e (60.41%)

Key Emission Hotspots & Highlights

- The **Use Phase** is the most significant contributor to the product's carbon footprint, accounting for **60.41%** of total emissions.
- **Manufacturing/Production** (from purchased electricity) contributes **20.03%**, indicating potential for reductions through increased renewable energy adoption.
- **Materials Acquisition & Pre-processing** represents **19.19%**, emphasizing the need for sustainable sourcing and design for circularity.
- **Last-mile delivery**, while a part of downstream transport, shows high intensity and contributes significantly to total transport emissions.

