

# xzyrxtxssy Carbon Footprint Dashboard

**Total PCF: 31.63 kg CO2e**

Total Product Footprint

**31.63 kg CO<sub>2</sub>e**

Per 1.0 unit of xzyrxtxssy

Carbon Intensity

**42.17 kg CO<sub>2</sub>e / kg**

Based on product weight (0.75 kg)

Top Material Hotspot

**3.15 kg CO<sub>2</sub>e**

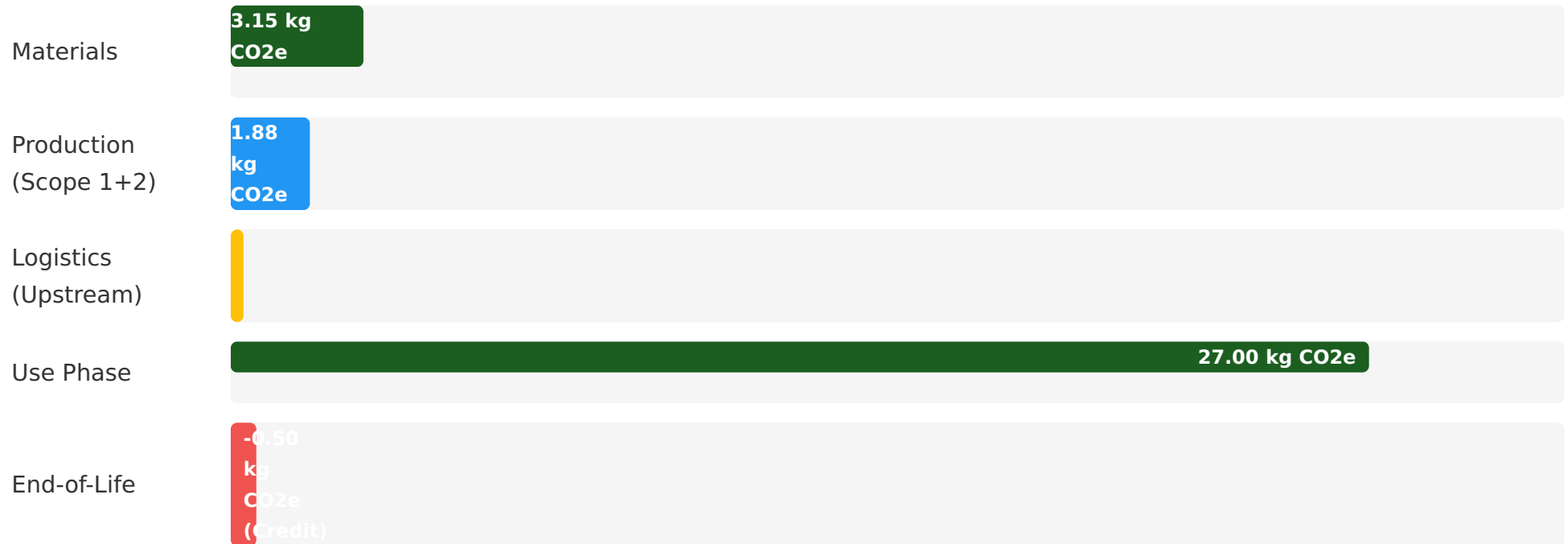
Main Product Casing (Polymer)

Primary Emission Scope

**Scope 3 Downstream**

26.51 kg CO<sub>2</sub>e (Use Phase + EoL)

## Lifecycle Stage Breakdown



## Material Carbon Impact

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Main Product  
Casing  
(Polymer)

3.15 kg  
CO2e



This chart highlights the carbon impact of the product's primary material component. The "Main Product Casing" made of Polymer is a key contributor to upstream emissions based on the Bill of Materials.

## Key Insights & Hotspots

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- The **Product Use Phase** is the most significant contributor to the total carbon footprint, accounting for approximately **85% (27.00 kg CO2e)**, primarily due to energy consumption over its 5-year lifespan.
- **Material Acquisition and Pre-processing** (3.15 kg CO2e) for the "Main Product Casing" represents a major upstream hotspot, emphasizing the importance of sustainable material choices.
- The product benefits from a **net positive End-of-Life impact** (-0.50 kg CO2e credit) due to its high recyclability (80%) and the identified "Product take-back scheme" circular program, effectively reducing the overall footprint.

## Action Plan: How to Reduce Impact

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1. **Material Optimization:** Investigate alternative, lower-carbon materials or increase recycled content for the "Main Product Casing" beyond current levels.
2. **Energy Efficiency in Use:** Implement design changes to reduce the energy consumption of xzyrxtxssy during its active use phase and promote renewable energy adoption by end-users.
3. **Logistics Optimization:** Evaluate and optimize transport routes and modes (e.g., shifting to more efficient rail or sea freight where feasible) for both upstream material acquisition and downstream product distribution.
4. **Enhance Circularity:** Quantify the benefits of existing "Product take-back scheme" programs and explore expanding repair services or refurbishment initiatives to further reduce End-of-Life impacts.
5. **Supply Chain Engagement:** Collaborate closely with suppliers to collect more granular, primary data for upstream emissions, ensuring even greater accuracy and identification of reduction opportunities in future PCF assessments.