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carboncalcpcf.com

Product Carbon Footprint Analysis

Product: ffkexjdqrt

Company: udwqtrdykp | Generated: May 22, 2026

24.07 kg CO₂e

Total Cradle-to-End-of-Life Footprint

Key Metrics

Total Footprint

24.07 kg CO₂e

Per 1 unit of ffkexjdqrt

Primary Emission Hotspot

Use Phase

75.20% of total footprint

Top Material Impact

Main Casing (Plastic)

4.20 kg CO₂e (17.45%)

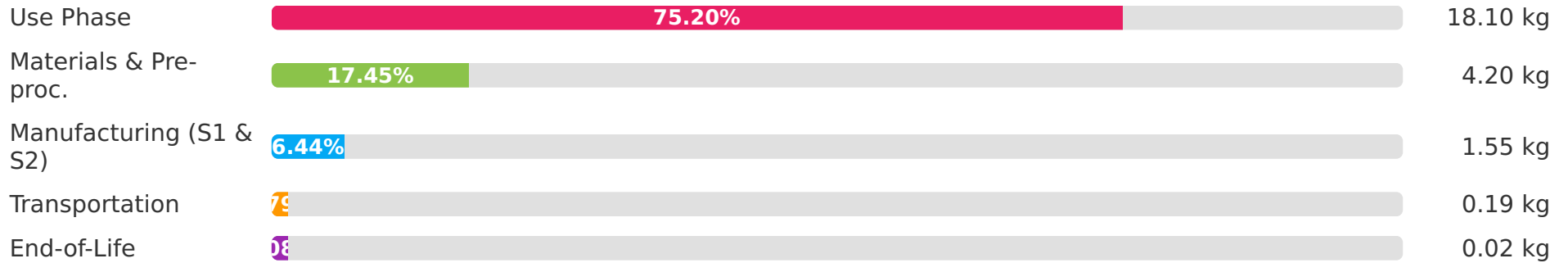
Primary GHG Scope

Scope 3

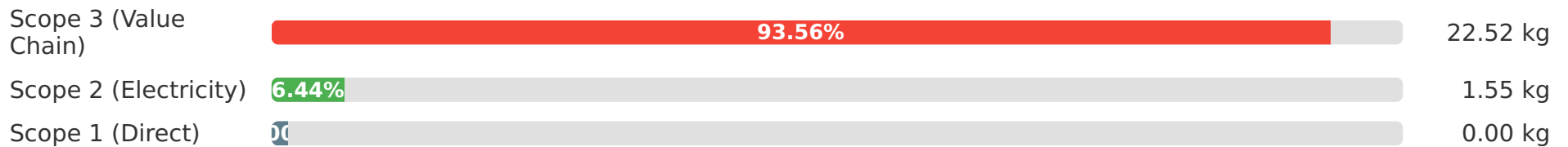
93.56% of total footprint

Emission Breakdown

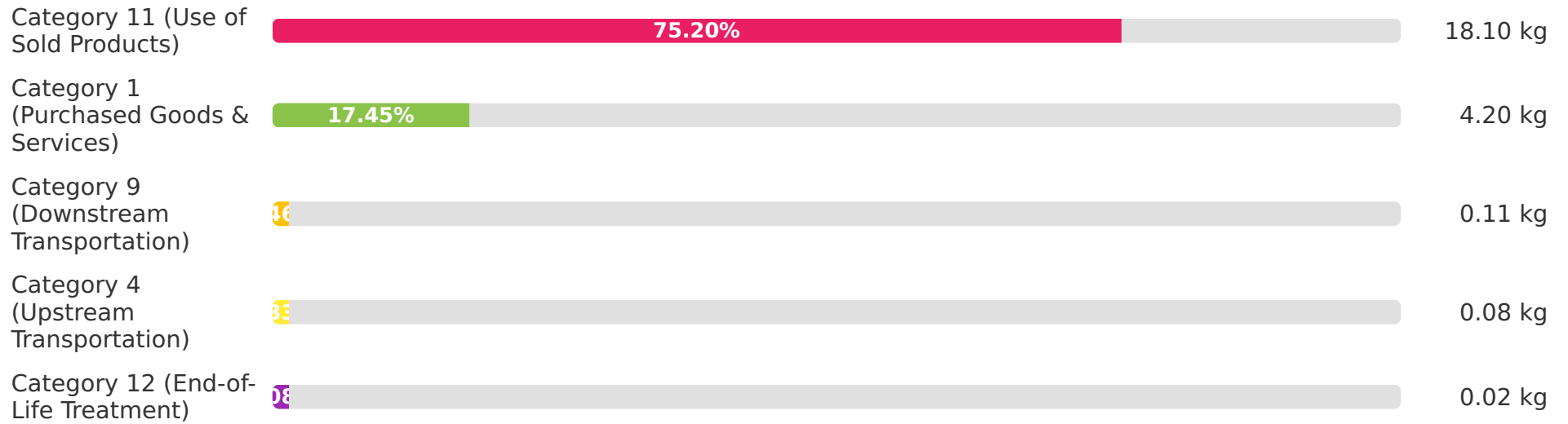
By Lifecycle Stage



By GHG Protocol Scope



Scope 3 Categories Breakdown



Highlights & Hotspots

- The **Use Phase (Scope 3, Category 11)** is the primary emission hotspot, contributing a significant 75.2% to the total PCF due to product energy consumption over its 5-year lifespan.
- **Material Acquisition & Pre-processing (Scope 3, Category 1)**, specifically the Main Casing (Plastic), is the second largest contributor, accounting for 17.5% of the total footprint.
- Overall, **Scope 3 emissions** constitute the vast majority (93.6%) of the product's carbon footprint, underscoring the importance of value chain engagement.

Recommendations for Reduction

- **Optimize Use Phase:** Implement energy-efficient designs and explore renewable energy solutions or offsets for customers.
- **Material Optimization:** Investigate alternative materials with lower embodied carbon and increase recycled content in components.
- **Manufacturing Efficiency:** Enhance renewable energy procurement and implement energy efficiency measures in production facilities.
- **Enhance Circularity:** Further develop take-back and refurbishment programs, and design for disassembly and repair.
- **Supply Chain Engagement:** Collaborate with logistics partners to optimize transport and collect more specific emissions data.

Product Carbon Footprint Analysis for ffkexjdqrt by carboncalcpcf.com. Adhering to GHG Protocol standards.

Disclaimer: Based on provided data and industry standards, including hypothetical values for generic parameters.