

SOYANG® | Green Innovation, Responsible Manufacturing

Soyang firmly believe sustainability is not an option but the only viable form of the future. Transparency is the cornerstone of trust, we openly share our footprints, methods, and challenges. Soyang, beyond production, we protect what matters.

As part of our comprehensive Life Cycle Assessment (LCA), we provide detailed insights into the Product Carbon Footprint (PCF, CO₂ equivalent) content.

Scope of Study

Product Name: High Tenacity Premium Blockout Banner
(BLOW-610)

Functional Unit: Polyester base fabric coated with PVC resin

Boundary: Cradle - to - gate+Shipping from Shanghai, China to Rotterdam, the Netherlands

Impact Indicator: Carbon Footprint | CO₂ eq

Inventory Findings

GWP : IPCC 2021

Methodology : IPCC 2021 GWP100

Data Sources : CPCD、Ecoinvent、 Provided by upstream suppliers、 Data research

Calculation Period : 2025-01-01 to 2025-12-31

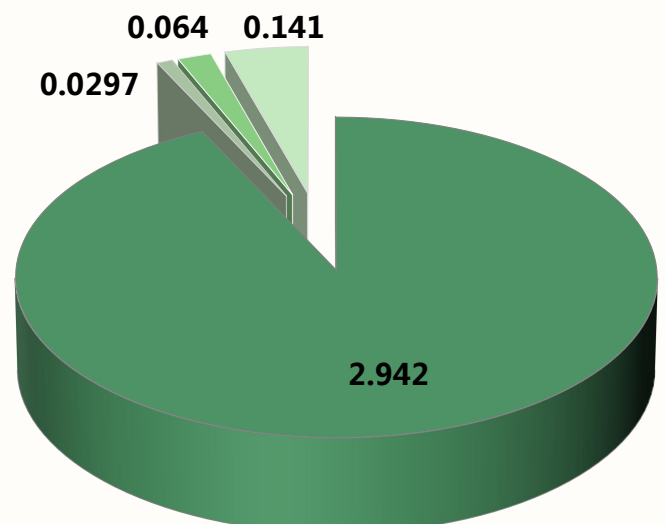
Functional Unit : 1m²



Total Carbon Footprint

3.177kg CO₂ eq

■ MATERIALS	92.60%	2.942kg CO ₂ eq
■ PRODUCTION	0.94%	0.0297kg CO ₂ eq
■ PACKAGING	2.02%	0.0643kg CO ₂ eq
■ TRANSPORT	4.44%	0.141kg CO ₂ eq
■ FINAL DISPOSAL	0%	0kg CO ₂ eq



SOYANG® | Every Product Carries Our Care for the Planet

This report adopts the ISO 14067 : 2018 standards and covers the stages of raw material acquisition, production and processing, packaging, and transportation. Carbon emission data is calculated based on internationally recognized emission factor databases and actual production data from the company.


MATERIALS	2.942kg CO₂ eq	The impact at this stage primarily originates from the production of core raw materials. Through the use of polyester yarn, PVC resin, and process optimizations that boost material efficiency, we have effectively lowered the baseline emissions of these key components.
PRODUCTION	0.0297kg CO₂ eq	The emissions at this stage mainly come from energy consumption during the production process. Our production uses 32% rooftop solar PV, with operations fully supported by clean natural gas, and a closed-loop water system achieving 50% recycling.
PACKAGING	0.0642kg CO₂ eq	The packaging stage is mainly driven by the environmental impact caused by the production of the outer packaging of the paper tubes.
TRANSPORT	0.141kg CO₂ eq	The emissions at this stage mainly come from long-distance transportation(Shanghai to Rotterdam by sea) The finished product transportation prioritize a low-carbon logistics model combining land and sea freight. By optimizing container loading rates and giving preference to sea freight and eco-friendly shipping routes in our logistics strategy, we have effectively optimized transportation emissions.



PVC-Free Coating Technology



Recycled Yarn Application



32% solar-generated Power
Annual circulating water over 1.5 million tons