

Environmental Footprint of Product

Quality products with a positive impact for people and planet, that is our aim. At TTS we are transparent about the environmental performance of our media textiles by taking a life cycle approach.

This document provides an overview of the carbon footprint of the **Blackback Soft FR**.

15 / 05 / 2023



texo-trade.com/contact/duurzaamheid

Scope of Study

Product name	Blackback Soft FR
Functional Unit	Printable textile media of 1 m ² with coating
Boundary	Cradle - to - gate
Impact Indicator	Carbon Footprint CO ₂ eq.

PRODUCT COMPOSITION

	Type	g / m ²
Fabric	Polyester (PET)	140
Coating	PA	129
Product		269
Packaging	PE, PVC Kraft liner	26,8
Product + Packaging		296

Methodology

A Life Cycle Assessment (LCA) measures the environmental impacts of a product or service. The scope of this study is cradle-to-gate and includes all processes up until the textile is manufactured, packaged and available for sale at TTS.

All material and resource consumption is tracked back to the point of raw material extraction. Processes like printing, downstream distribution, media usage and end-of-life scenarios are not included in the scope of this LCA.

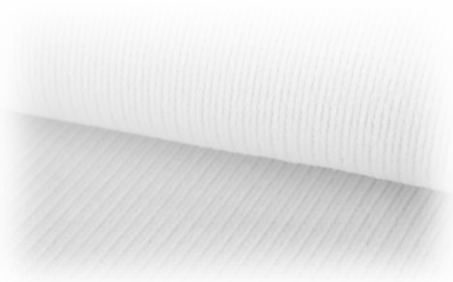
The inventory was established in collaboration with value chain partners to provide primary data where possible, supplemented with industry averages. The carbon footprint was calculated using emission factors from Ecoinvent 3.8.



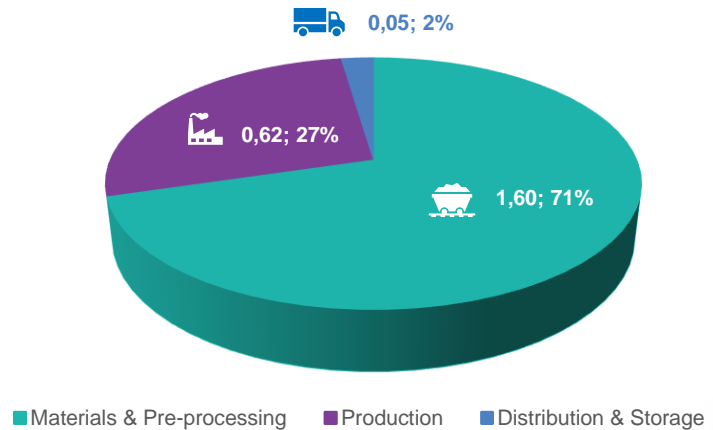
The carbon footprint of our Blackback Soft FR provides an indication of its impact on climate change. Greenhouse gas (GHG) emissions have been identified and calculated for the entire product (100m x 320cm) and brought back to the level of one square meter of fabric. GHG emissions were found in topics such as materials, energy, processing, transportation, direct emissions and waste treatment.

TOTAL CARBON FOOTPRINT

2,27 kg CO₂ / m²



CARBON FOOTPRINT PER LIFE CYCLE STAGE



Life Cycle Stage	kg CO ₂ / m ²	Description
MATERIALS & PRE-PROCESSING	1,60	The Materials & Pre-processing stage includes all impacts that are associated with the acquisition and processing of the raw materials that make up the Blackback Soft FR. The impact of 1,60 kg CO ₂ / m ² is mainly determined by the production of PET yarn (71%) and the PA coating (26%). Packaging materials are responsible for 1,6% of the impact in this life cycle stage.
PRODUCTION	0,62	The Production stage includes all impacts related to manufacturing material components into the final product and its packaging. The impact of 0,62 kg CO ₂ / m ² is mainly determined by the gas and electricity used in the application of the coating (85%) and the textile production (14%). Production of the different types of packaging is responsible for 0,6% of the impact in this life cycle stage.
TRANSPORT	0,05	The Distribution & Storage stage includes all impacts that are associated with the transportation and handling of the Blackback Soft FR up until the point that it is available for sale at TTS. The impact of 0,05 kg CO ₂ / m ² is mainly determined by shipment of the product and its packaging from China to the Netherlands (99,6%). The electricity used for storage is fairly low (0,2%), also due to the use of solar panels at TTS.

Did you know?

The material **recycled PET** provides the same textile media experience while realizing a **64% CO₂ reduction** compared to virgin PET?

Contact us for more information about our recycled textiles program

texo-trade.com/contact/duurzaamheid



Our Blackback Soft FR printable textile media does not contain PVC



Texo Trade Services BV is continuously working on providing more sustainable textiles