



Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Performance Clean Plus Dry Fibre,
40 cm

2025-12-19

Summary



01 | Methodology



02 | Results



01

Methodology

Environmental Impact Assessment

Functional unit	The functional unit of this analysis is "Product 'Performance Clean Plus Dry Fibre, 40 cm' (product code: 1540) is made of 100% polyester, weighs 0.074 kgs, and is certified under Oekotex"
Impact Indicator	The impact is measured through the "EF v3.1 method" method
Hypothesis	<p>The data source for the emission factors is Ecoinvent 3.12. The System Model used is allocation, cut-off by classification.</p> <p>Where data was not available from NMF, conservative estimates have been applied.</p> <p>Assumptions include; origin of raw materials (GLO, IN averages) and manufacturing processes (GLO averages).</p>

Environmental Impact Assessment

System Boundaries

The scope of this study is Cradle-to-Gate and assesses according to EF v3.1 as LCIA (Life Cycle Impact Assessment) method is developed by the European Commission.

This method is compatible with ISO 14040/44 and PEF. This LCA has not been independently reviewed.

Exclusions

The following stages have been excluded: Downstream Transportation, Use and End-of-Life.

Emission Factor Inventory

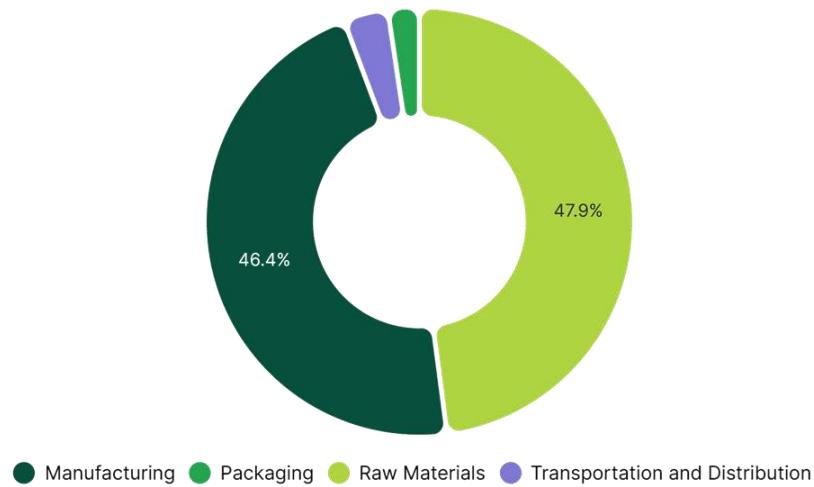
Nu m	Emission Factor	Source	Value	Unit
1	Polyethylene terephthalate, granulate, amorphous Market for polyethylene terephthalate, granulate, amorphous Market activity	ECOINVENT 3.12	3.70	kg
2	Fibre, polyester Polyester fibre production, finished Ordinary transforming activity	ECOINVENT 3.12	4.78	kg
3	Weaving, synthetic fibre Market for weaving, synthetic fibre Market activity	ECOINVENT 3.12	0.56	kg
4	Corrugated board box Market for corrugated board box Market activity	ECOINVENT 3.12	1.27	kg
5	Printed paper Market for printed paper Market activity	ECOINVENT 3.12	2.54	kg
6	Transport, freight, sea, container ship, heavy fuel oil Market for transport, freight, sea, container ship, heavy fuel oil Market activity	ECOINVENT 3.12	0.01	metric _t_km
7	Transport, freight, lorry, diesel, unspecified Market for transport, freight, lorry, unspecified Market activity	ECOINVENT 3.12	0.16	metric _t_km

02

Results

Performance Clean Plus Dry Fibre, 40 cm

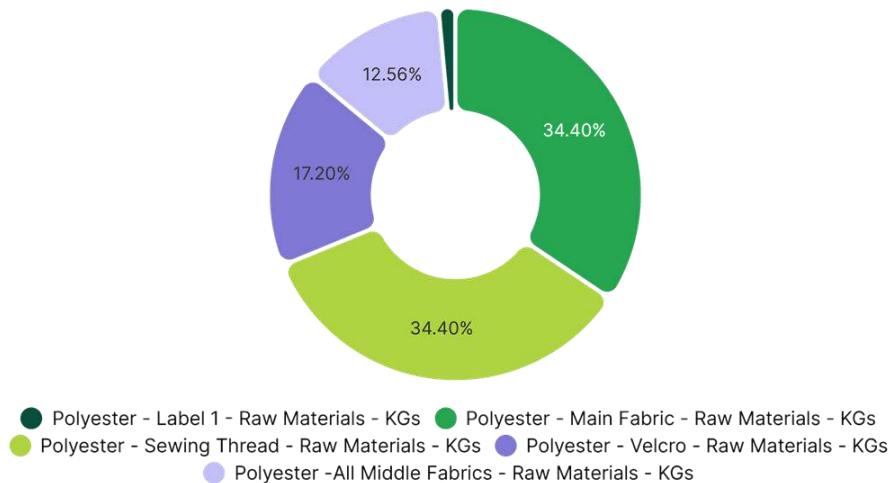
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Materials	0.41	47.93 %
Manufacturing	0.39	46.36 %
Transportation and Distribution	0.03	3.35 %
Packaging	0.02	2.36 %
TOTAL	0.85	100.00 %

Performance Clean Plus Dry Fibre, 40 cm

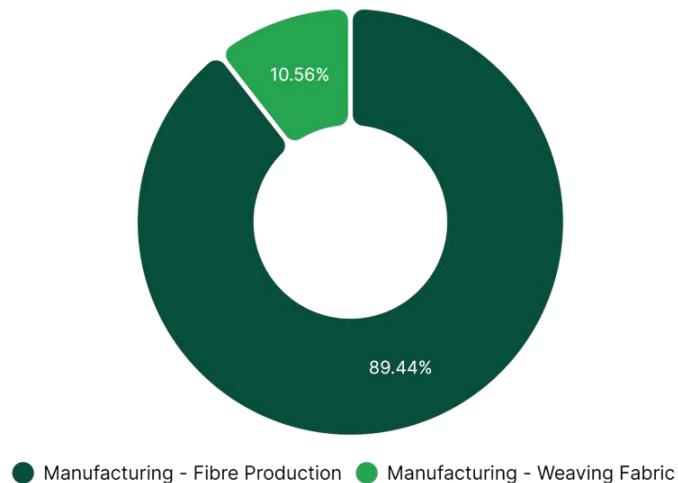
Climate Change - Raw Materials



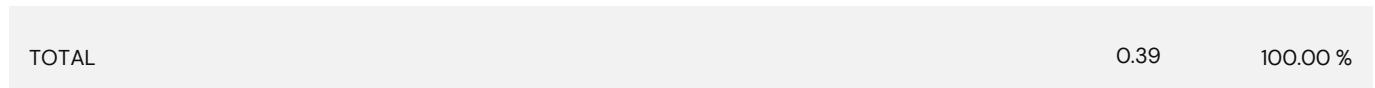
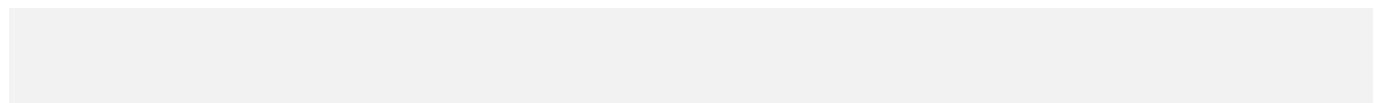
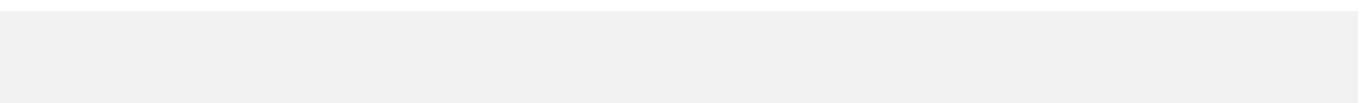
Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester - Main Fabric - Raw Materials - KGs	1	0.04	kg	0.14	34.40 %
Polyester - Sewing Thread - Raw Materials - KGs	1	0.04	kg	0.14	34.40 %
Polyester - Velcro - Raw Materials - KGs	1	0.02	kg	0.07	17.20 %
Polyester - All Middle Fabrics - Raw Materials - KGs	1	0.01	kg	0.05	12.56 %
Polyester - Label 1 - Raw Materials - KGs	1	$1.58 \cdot 10^{-3}$	kg	$5.84 \cdot 10^{-3}$	1.44 %
TOTAL				0.41	100.00 %

Performance Clean Plus Dry Fibre, 40 cm

Climate Change - Manufacturing

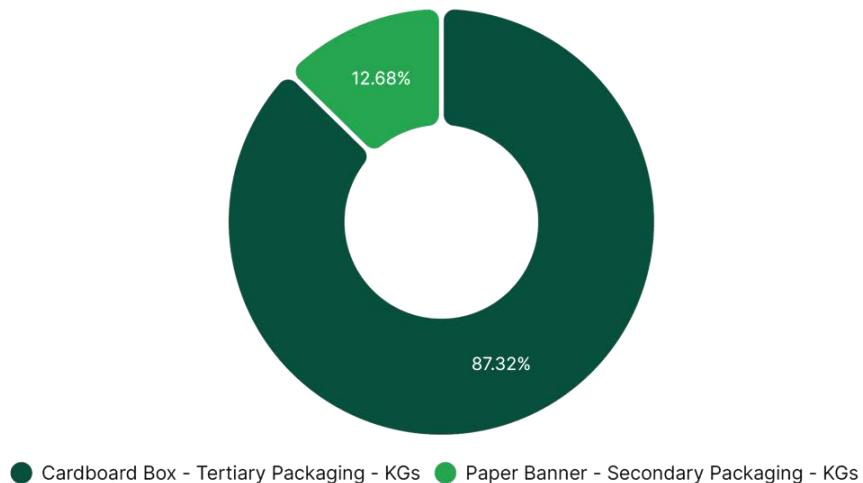


Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing - Fibre Production	2	0.07	kg	0.35	89.44 %
Manufacturing - Weaving Fabric	3	0.07	kg	0.04	10.56 %
TOTAL				0.39	100.00 %

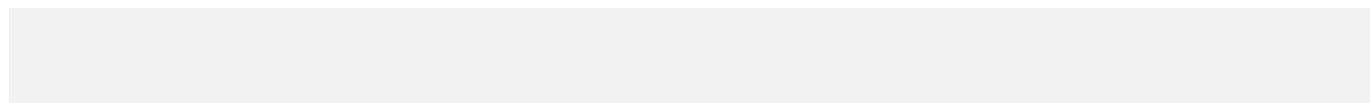
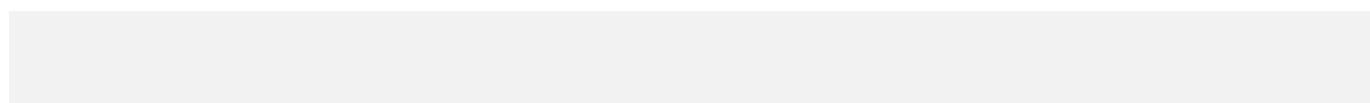


Performance Clean Plus Dry Fibre, 40 cm

Climate Change - Packaging



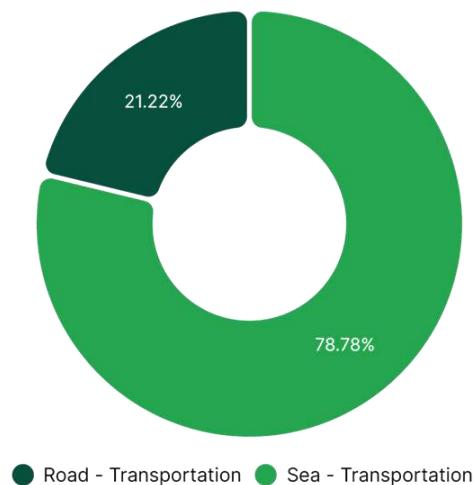
Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box - Tertiary Packaging - KGs	4	0.01	kg	0.02	87.32 %
Paper Banner - Secondary Packaging - KGs	5	1 · 10 ⁻³	kg	2.53 · 10 ⁻³	12.68 %



TOTAL	0.02	100.00 %
-------	------	----------

Performance Clean Plus Dry Fibre, 40 cm

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	6	2.32	metric_t_km	0.02	78.78 %
Road - Transportation	7	0.04	metric_t_km	$6.03 \cdot 10^{-3}$	21.22 %
TOTAL				0.03	100.00 %

TOTAL

0.03

100.00 %

This LCA was carried out by Sustaina Company
using the Greenly software. This LCA has not
been third party verified.