



Nordisk Microfiber

**Life Cycle Assessment
Cradle to Gate**

ECO-TEX SOFT, 32x32 cm, blue

2025-12-19

Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

Functional unit

The functional unit of this analysis is "Product 'ECO-TEX SOFT, 32x32 cm, blue' (product code: 5032-B) is made of 80% polyester + 20 % polyamide, weighs 0.032 kgs, and is certified under Oeko-tex"

Impact Indicator

The impact is measured through the "EF v3.1 method" method

Hypothesis

The data source for the emission factors is Ecolnvent 3.12. The System Model used is allocation, cut-off by classification.

Where data was not available from NMF, conservative estimates have been applied.

Assumptions include; origin of raw materials (GLO, IN averages) and manufacturing processes (GLO averages).

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

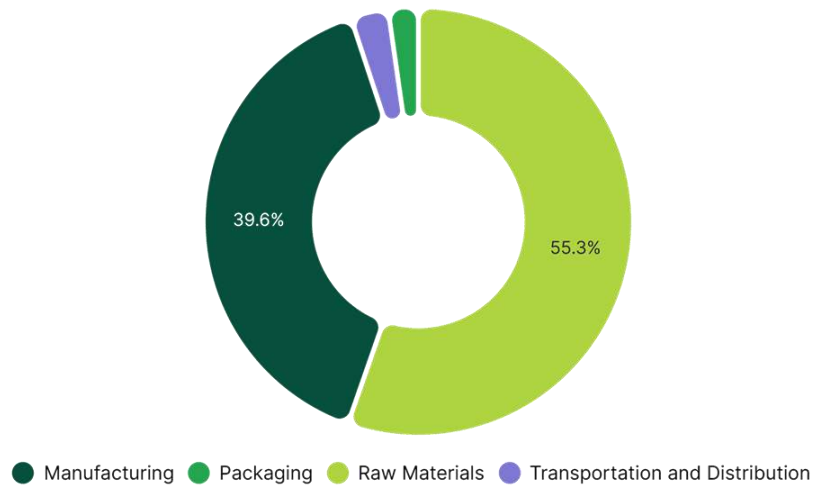
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02

Results

ECO-TEX SOFT, 32x32 cm, blue

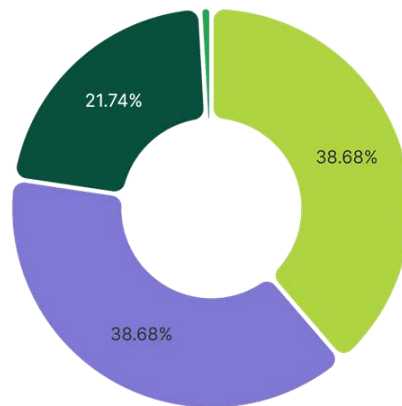
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Materials	0.24	55.35 %
Manufacturing	0.17	39.56 %
Transportation and Distribution	0.01	2.83 %
Packaging	9.68 · 10 ⁻³	2.26 %
TOTAL	0.43	100.00 %

ECO-TEX SOFT, 32x32 cm, blue

Climate Change - Raw Materials

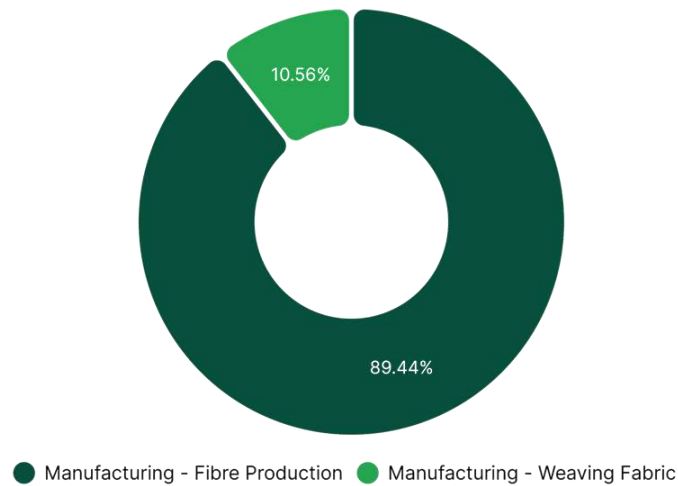


● Polyamide - Main Fabric - Raw Materials - KGs ● Polyester - Label 1 - Raw Materials - KGs
● Polyester - Main Fabric - Raw Materials - KGs ● Polyester - Sewing Thread - Raw Materials - KGs

Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester - Main Fabric - Raw Materials - KGs	2	0.02	kg	0.09	38.68 %
Polyester - Sewing Thread - Raw Materials - KGs	2	0.02	kg	0.09	38.68 %
Polyamide - Main Fabric - Raw Materials - KGs	1	6.2 · 10 ⁻³	kg	0.05	21.74 %
Polyester - Label 1 - Raw Materials - KGs	2	5.8 · 10 ⁻⁴	kg	2.14 · 10 ⁻³	0.90 %
TOTAL				0.24	100.00 %

ECO-TEX SOFT, 32x32 cm, blue

Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing – Fibre Production	4	0.03	kg	0.15	89.44 %
Manufacturing – Weaving Fabric	3	0.03	kg	0.02	10.56 %

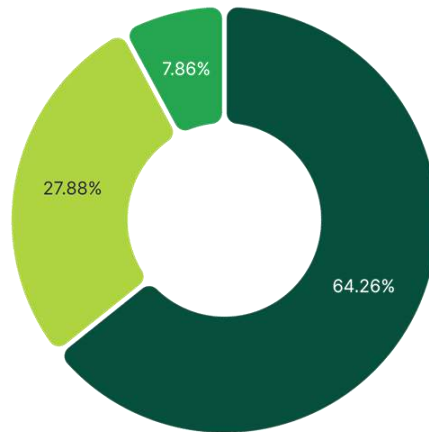
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TOTAL				0.17	100.00 %
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ECO-TEX SOFT, 32x32 cm, blue

Climate Change - Packaging

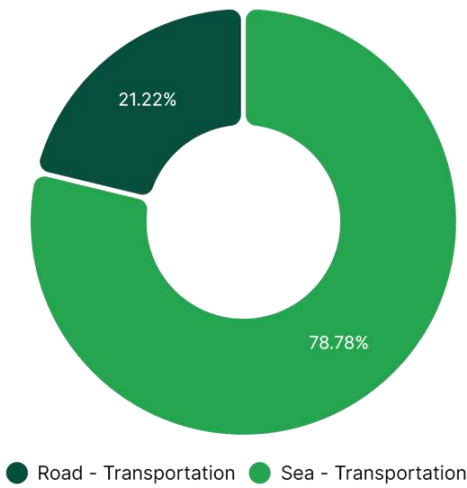


● Cardboard Box - Tertiary Packaging - KGs ● Paper Sticker - Primary Packaging - KGs

Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box – Tertiary Packaging – KGs	6	4.91 · 10 ⁻³	kg	6.22 · 10 ⁻³	64.26 %
Polyethelyne – Primary Packaging – KGs	5	8 · 10 ⁻⁴	kg	2.69 · 10 ⁻³	27.88 %
Paper Sticker – Primarry Packaging – KGs	7	3 · 10 ⁻⁴	kg	7.61 · 10 ⁻⁴	7.86 %
TOTAL				9.68 · 10 ⁻³	100.00 %

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Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	9	0.99	metric_t_km	9.56 · 10 ⁻³	78.78 %
Road - Transportation	8	0.02	metric_t_km	2.57 · 10 ⁻³	21.22 %

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TOTAL				0.01	100.00 %
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This LCA was carried out by Sustaina Company using the Greenly software. This LCA has not been third party verified.