

Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Fugtmoppe, hvid, mikrofiber, 40 cm,
med velcro

2025-12-19

Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

Functional unit

The functional unit of this analysis is "Product 'Fugtmoppe, hvid, mikrofiber, 40 cm, med velcro' (product code: 1640-PRO) is made of 80% polyester + 20 % polyamide, weighs 0.112 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 EcolInvent 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

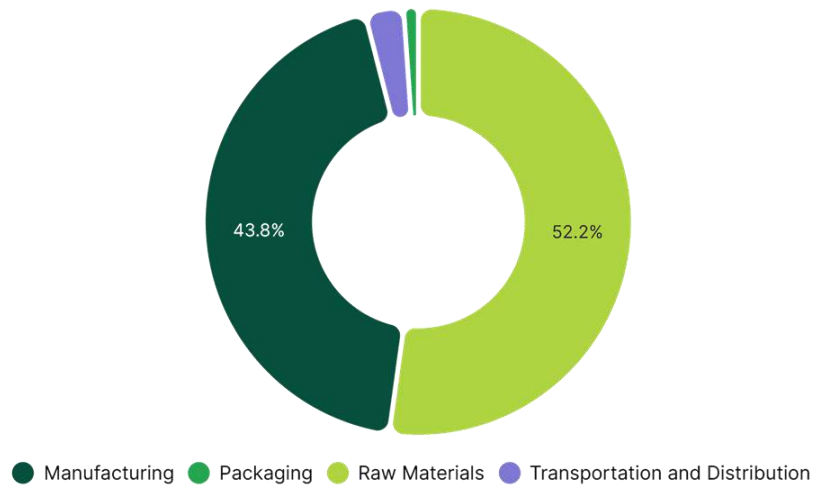
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02

Results

Fugtmoppe, hvid, mikrofiber, 40 cm, med velcro

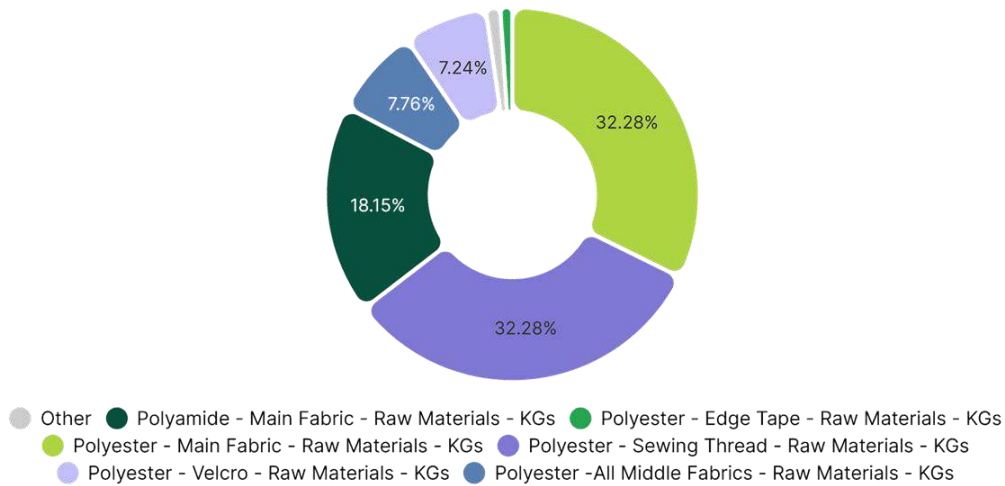
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Materials	0.72	52.19 %
Manufacturing	0.6	43.81 %
Transportation and Distribution	0.04	2.89 %
Packaging	0.02	1.11 %
TOTAL	1.37	100.00 %

Fugtmoppe, hvid, mikrofiber, 40 cm, med velcro

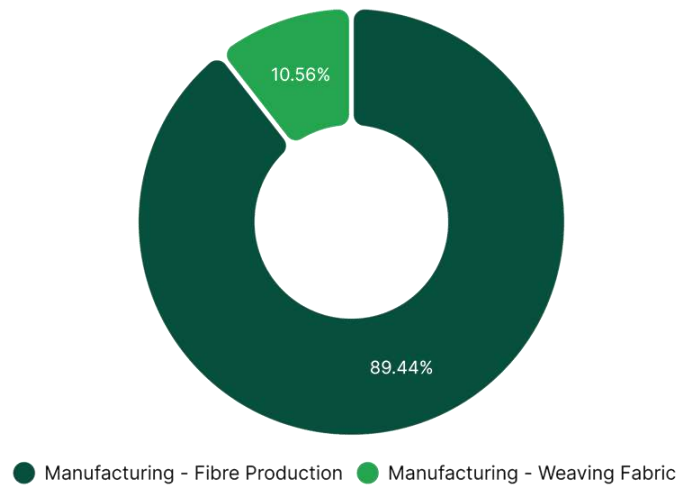
Climate Change - Raw Materials



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester - Sewing Thread - Raw Materials - KGs	1	0.06	kg	0.23	32.28 %
Polyester - Main Fabric - Raw Materials - KGs	1	0.06	kg	0.23	32.28 %
Polyamide - Main Fabric - Raw Materials - KGs	3	0.02	kg	0.13	18.15 %
Polyester - All Middle Fabrics - Raw Materials - KGs	1	0.02	kg	0.06	7.76 %
Polyester - Velcro - Raw Materials - KGs	1	0.01	kg	0.05	7.24 %
Polyester - Edge Tape - Raw Materials - KGs	1	2 · 10 ⁻³	kg	7.4 · 10 ⁻³	1.03 %
Others				8.93 · 10 ⁻³	1.25 %
TOTAL				0.72	100.00 %

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Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing – Fibre Production	4	0.11	kg	0.54	89.44 %
Manufacturing – Weaving Fabric	5	0.11	kg	0.06	10.56 %

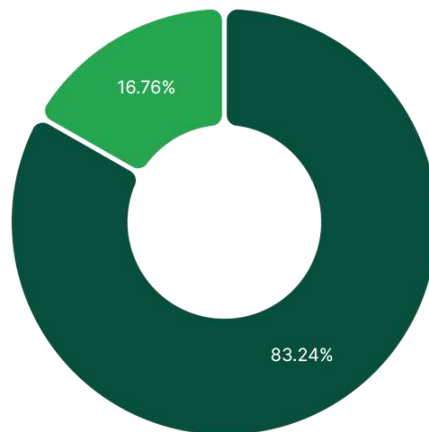
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TOTAL				0.6	100.00 %
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Fugtmoppe, hvid, mikrofiber, 40 cm, med velcro

Climate Change - Packaging



● Cardboard Box - Tertiary Packaging - KGs ● Paper Banner - Secondary Packaging - KGs

Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box - Tertiary Packaging - KGs	6	9.95 · 10 ⁻³	kg	0.01	83.24 %
Paper Banner - Secondary Packaging - KGs	7	1 · 10 ⁻³	kg	2.53 · 10 ⁻³	16.76 %

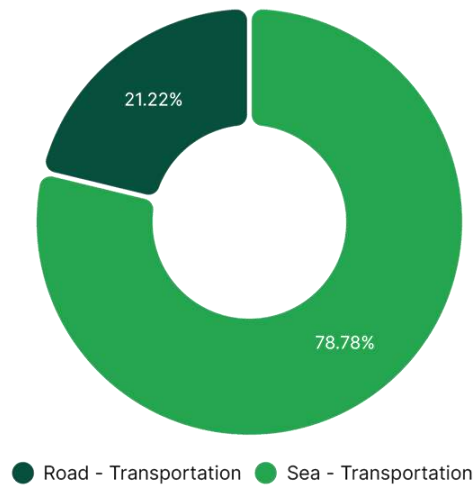
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TOTAL				0.02	100.00 %
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Fugtmoppe, hvid, mikrofiber, 40 cm, med velcro

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	9	3.24	metric_t_km	0.03	78.78 %
Road - Transportation	8	0.05	metric_t_km	8.41 · 10 ⁻³	21.22 %

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TOTAL				0.04	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.