



Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

High Performance Mop, 30 cm

2025-12-19

Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

Functional unit

The functional unit of this analysis is "Product 'High Performance Mop, 30 cm' (product code: FX-30-95) is made of 80% recycled polyester + 20% polyamide, weighs 0.101 kgs, and is not otherwise certified"

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

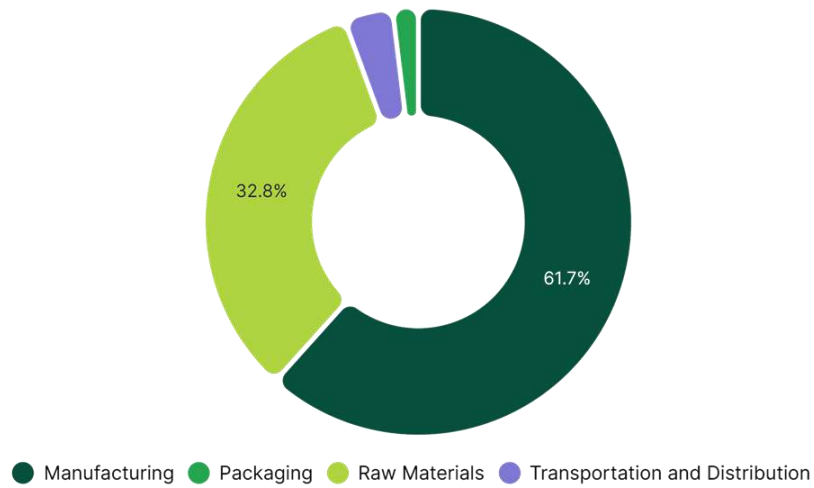
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02

Results

High Performance Mop, 30 cm

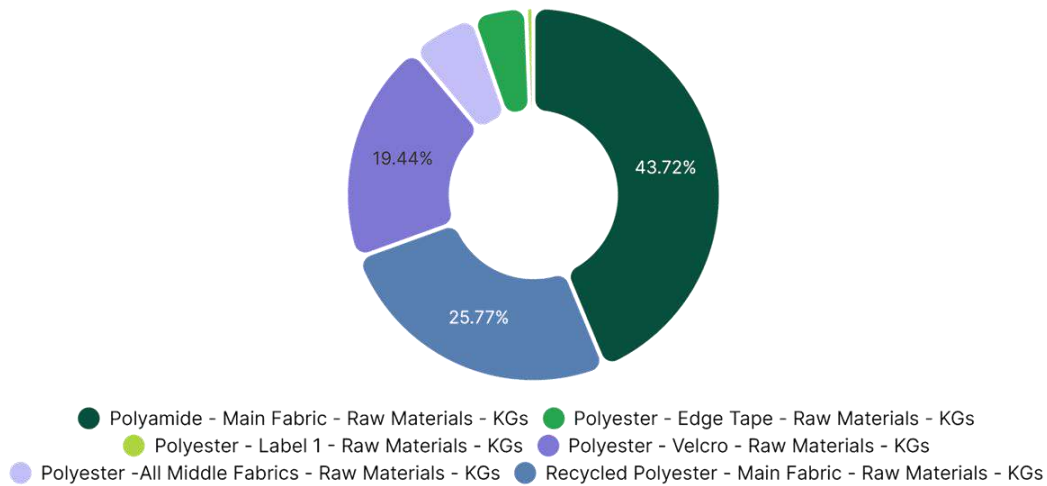
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing	0.54	61.65 %
Raw Materials	0.29	32.75 %
Transportation and Distribution	0.03	3.66 %
Packaging	0.02	1.93 %
TOTAL	0.88	100.00 %

High Performance Mop, 30 cm

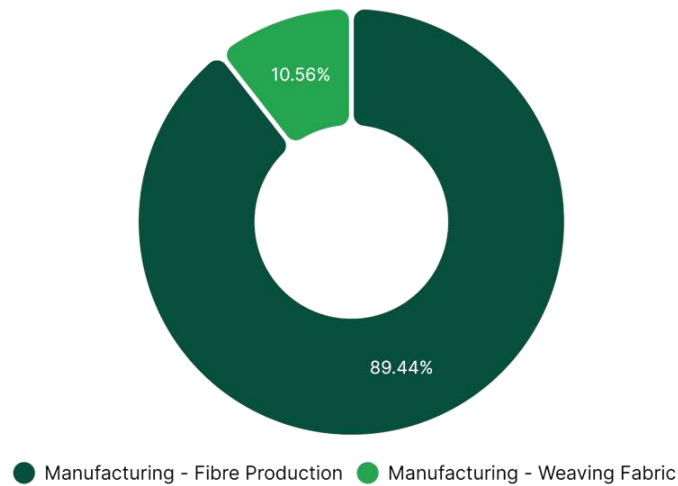
Climate Change - Raw Materials



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyamide - Main Fabric - Raw Materials - KGs	3	0.02	kg	0.13	43.72 %
Recycled Polyester - Main Fabric - Raw Materials - KGs	2	0.06	kg	0.07	25.77 %
Polyester - Velcro - Raw Materials - KGs	1	0.02	kg	0.06	19.44 %
Polyester - All Middle Fabrics - Raw Materials - KGs	1	4.49 · 10 ⁻³	kg	0.02	5.79 %
Polyester - Edge Tape - Raw Materials - KGs	1	3.6 · 10 ⁻³	kg	0.01	4.64 %
Polyester - Label 1 - Raw Materials - KGs	1	5 · 10 ⁻⁴	kg	1.85 · 10 ⁻³	0.64 %
TOTAL				0.29	100.00 %

High Performance Mop, 30 cm

Climate Change - Manufacturing

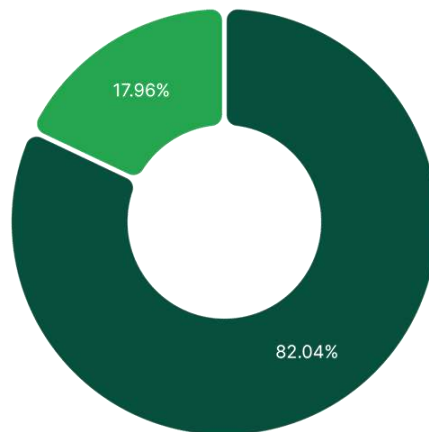


Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing – Fibre Production	4	0.1	kg	0.48	89.44 %
Manufacturing – Weaving Fabric	5	0.1	kg	0.06	10.56 %

TOTAL	0.54	100.00 %
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High Performance Mop, 30 cm

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	0.01	kg	0.01	82.04 %
Paper Banner - Secondary Packaging - KGs	7	1.2 · 10 ⁻³	kg	3.04 · 10 ⁻³	17.96 %

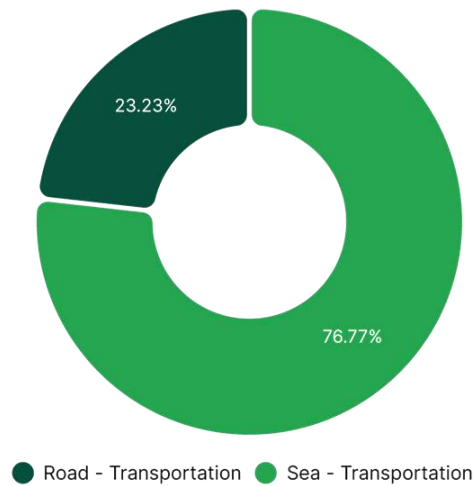
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TOTAL				0.02	100.00 %
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High Performance Mop, 30 cm

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	9	2.55	metric_t_km	0.02	76.77 %
Road - Transportation	8	0.05	metric_t_km	$7.45 \cdot 10^{-3}$	23.23 %

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TOTAL				0.03	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.