



Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Performance Universal Mop Max, 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 Universal Mop Max, 40 cm' (product code: 1640-L) is made of 80% polyester + 20 % polyamide, weighs 0.102 kgs, and is certified under Oeko-tex"

Impact Indicator

The impact is measured through the "EF 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

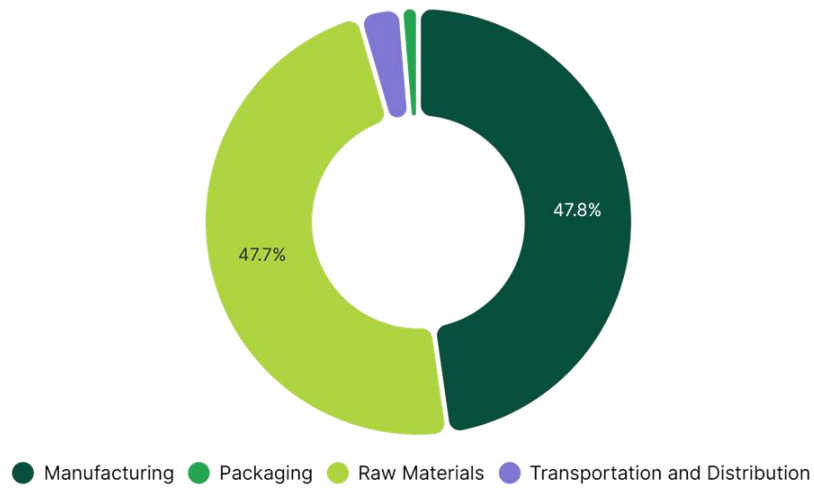
Nu m	Emission Factor	Source	Value	Unit
1	Polyethylene terephthalate, granulate, amorphous Market for polyethylene terephthalate, granulate, amorphous Market activity	ECOINVENT 3.12	3.70	kg
2	Nylon 6-6 Market for nylon 6-6 Market activity	ECOINVENT 3.12	8.32	kg
3	Weaving, synthetic fibre Market for weaving, synthetic fibre Market activity	ECOINVENT 3.12	0.56	kg
4	Fibre, polyester Polyester fibre production, finished Ordinary transforming activity	ECOINVENT 3.12	4.78	kg
5	Printed paper Market for printed paper Market activity	ECOINVENT 3.12	2.54	kg
6	Corrugated board box Market for corrugated board box Market activity	ECOINVENT 3.12	1.27	kg
7	Transport, freight, lorry, diesel, unspecified Market for transport, freight, lorry, unspecified Market activity	ECOINVENT 3.12	0.16	metric _t_km
8	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

02

Results

Performance Universal Mop Max, 40 cm

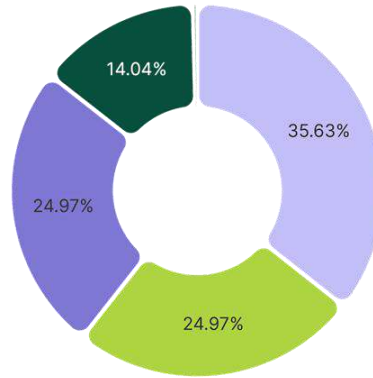
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing	0.55	47.76 %
Raw Materials	0.55	47.73 %
Transportation and Distribution	0.04	3.18 %
Packaging	0.02	1.32 %
TOTAL	1.14	100.00 %

Performance Universal Mop Max, 40 cm

Climate Change - Raw Materials

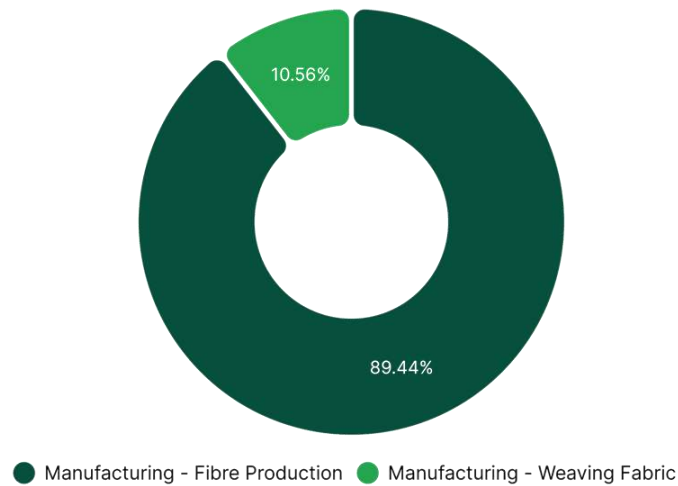


- Polyamide - Main Fabric - Raw Materials - KGs
- Polyester - Label 1 - Raw Materials - KGs
- Polyester - Main Fabric - Raw Materials - KGs
- Polyester - Sewing Thread - Raw Materials - KGs
- Polyester - All Middle Fabrics - Raw Materials - KGs

Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester -All Middle Fabrics - Raw Materials - KGs	1	0.05	kg	0.19	35.63 %
Polyester - Main Fabric - Raw Materials - KGs	1	0.04	kg	0.14	24.97 %
Polyester - Sewing Thread - Raw Materials - KGs	1	0.04	kg	0.14	24.97 %
Polyamide - Main Fabric - Raw Materials - KGs	2	$9.19 \cdot 10^{-3}$	kg	0.08	14.04 %
Polyester - Label 1 - Raw Materials - KGs	1	$5.8 \cdot 10^{-4}$	kg	$2.14 \cdot 10^{-3}$	0.39 %
TOTAL				0.55	100.00 %

Performance Universal Mop Max, 40 cm

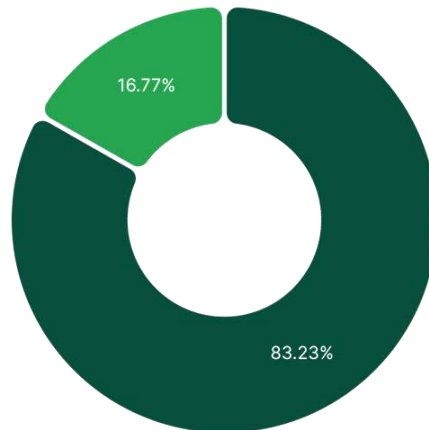
Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing – Fibre Production	4	0.1	kg	0.49	89.44 %
Manufacturing – Weaving Fabric	3	0.1	kg	0.06	10.56 %
TOTAL				0.55	100.00 %

Performance Universal Mop Max, 40 cm

Climate Change - Packaging



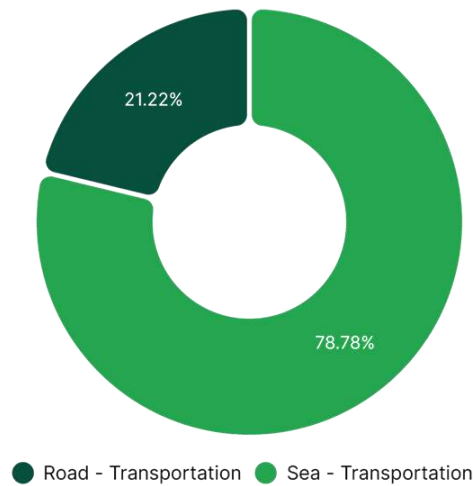
● Cardboard Box - Tertiary Packaging - KGs ● Paper Banner - Secondary Packaging - KGs

Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box – Tertiary Packaging – KGs	6	9.93 · 10 ^{−3}	kg	0.01	83.23 %
Paper Banner – Secondary Packaging – KGs	5	1 · 10 ^{−3}	kg	2.53 · 10 ^{−3}	16.77 %

TOTAL	0.02	100.00 %
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Performance Universal Mop Max, 40 cm

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	8	2.97	metric_t_km	0.03	78.78 %
Road - Transportation	7	0.05	metric_t_km	7.71 · 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.