



Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Mikro Vision Health Care Mop, 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 'Mikro Vision Health Care Mop, 40 cm' (product code: FA-43-47-HC) is made of 64% recycled polyester + 36% polyester, weighs 0.072 kgs, and is not otherwise certified"
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

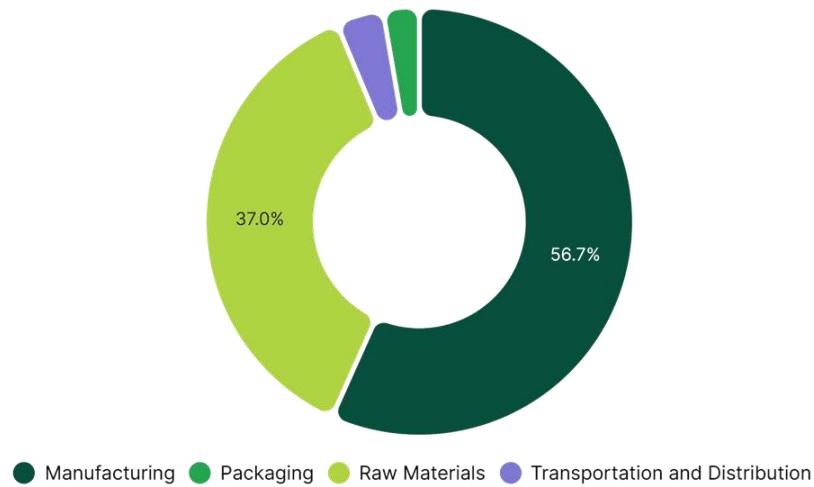
Nu m	Emission Factor	Source	Value	Unit
1	Polyethylene terephthalate, granulate, amorphous Market for polyethylene terephthalate, granulate, amorphous Market activity	ECOINVENT 3.12	3.70	kg
2	Polyethylene terephthalate, pellets, recycled fibre based Market for polyethylene terephthalate, pellets, recycled fibre based Market activity	ECOINVENT 3.12	1.23	kg
3	Fibre, polyester Polyester fibre production, finished Ordinary transforming activity	ECOINVENT 3.12	4.78	kg
4	Weaving, synthetic fibre Market for weaving, synthetic fibre Market activity	ECOINVENT 3.12	0.56	kg
5	Corrugated board box Market for corrugated board box Market activity	ECOINVENT 3.12	1.27	kg
6	Printed paper Market for printed paper Market activity	ECOINVENT 3.12	2.54	kg
7	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
8	Transport, freight, lorry, diesel, unspecified Market for transport, freight, lorry, unspecified Market activity	ECOINVENT 3.12	0.16	metric_t_km

02

Results

Mikro Vision Health Care Mop, 40 cm

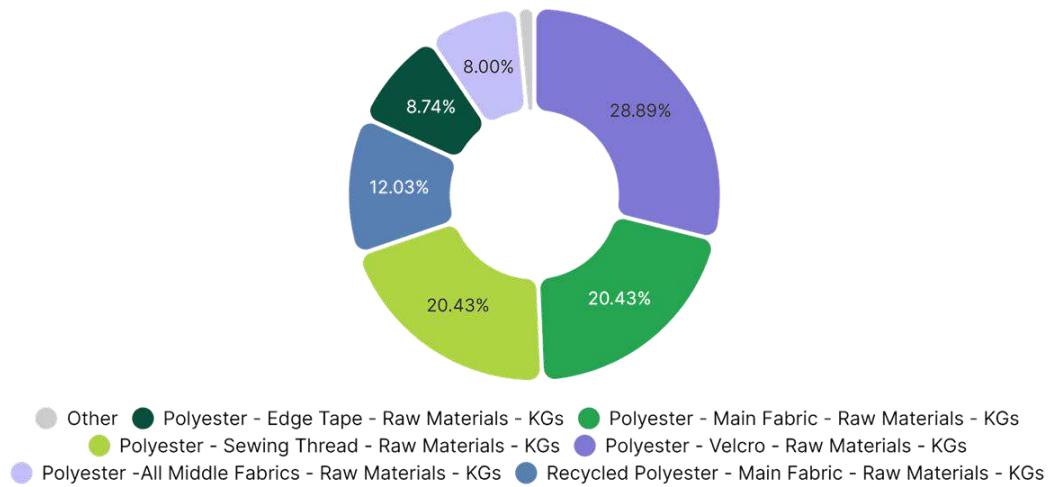
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing	0.38	56.70 %
Raw Materials	0.25	37.01 %
Transportation and Distribution	0.02	3.56 %
Packaging	0.02	2.72 %
TOTAL	0.67	100.00 %

Mikro Vision Health Care Mop, 40 cm

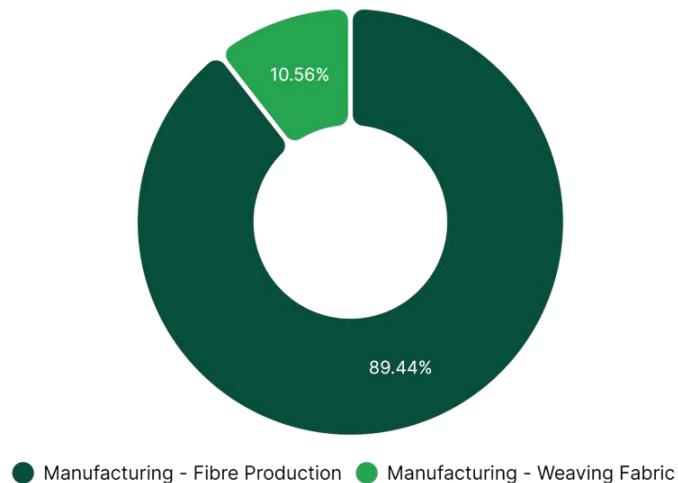
Climate Change - Raw Materials



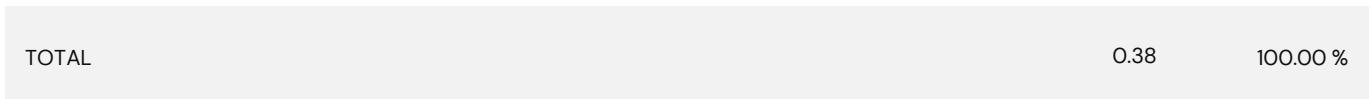
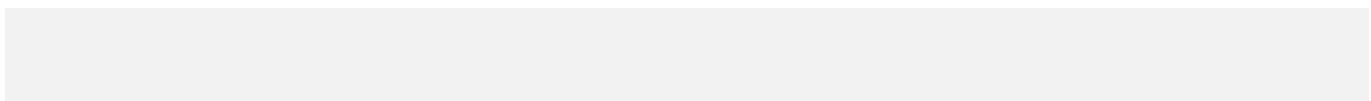
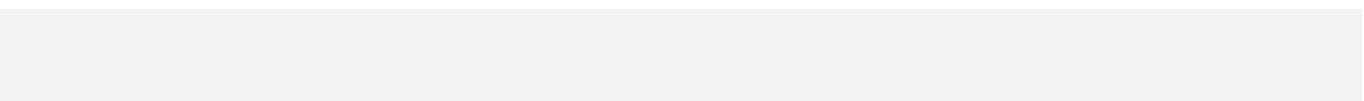
Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester - Velcro - Raw Materials - KGs	1	0.02	kg	0.07	28.89 %
Polyester - Main Fabric - Raw Materials - KGs	1	0.01	kg	0.05	20.43 %
Polyester - Sewing Thread - Raw Materials - KGs	1	0.01	kg	0.05	20.43 %
Recycled Polyester - Main Fabric - Raw Materials - KGs	2	0.02	kg	0.03	12.03 %
Polyester - Edge Tape - Raw Materials - KGs	1	$5.9 \cdot 10^{-3}$	kg	0.02	8.74 %
Polyester - All Middle Fabrics - Raw Materials - KGs	1	$5.4 \cdot 10^{-3}$	kg	0.02	8.00 %
Others				$3.7 \cdot 10^{-3}$	1.48 %
TOTAL				0.25	100.00 %

Mikro Vision Health Care Mop, 40 cm

Climate Change - Manufacturing

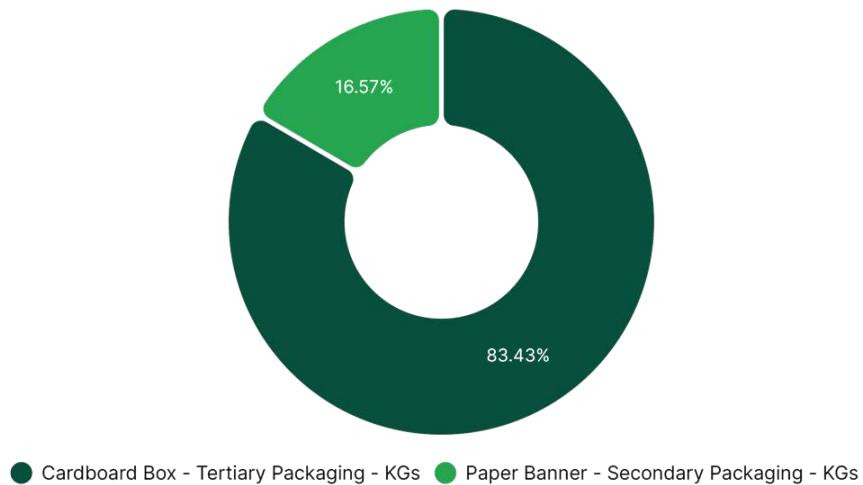


Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing - Fibre Production	3	0.07	kg	0.34	89.44 %
Manufacturing - Weaving Fabric	4	0.07	kg	0.04	10.56 %
TOTAL				0.38	100.00 %



Mikro Vision Health Care Mop, 40 cm

Climate Change - Packaging



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box - Tertiary Packaging - KGs	5	0.01	kg	0.02	83.43 %
Paper Banner - Secondary Packaging - KGs	6	$1.2 \cdot 10^{-3}$	kg	$3.04 \cdot 10^{-3}$	16.57 %
TOTAL				0.02	100.00 %

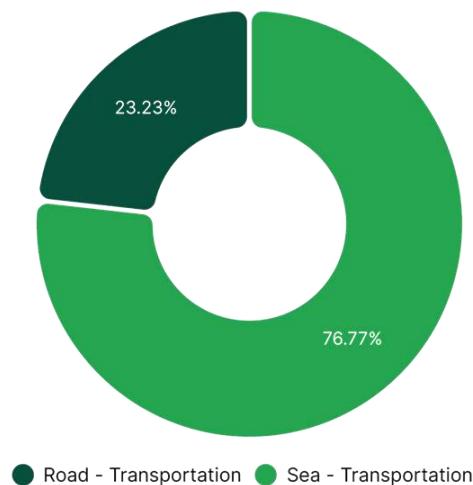
TOTAL

0.02

100.00 %

Mikro Vision Health Care Mop, 40 cm

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	7	1.91	metric_t_km	0.02	76.77 %
Road - Transportation	8	0.03	metric_t_km	$5.58 \cdot 10^{-3}$	23.23 %
TOTAL				0.02	100.00 %

TOTAL

0.02

100.00 %

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