



Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Mikro Vision Health Care Mop, 60 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, 60 cm' (product code: FA-62-66-HC) is made of 64% recycled polyester + 36% polyester, weighs 0.101 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

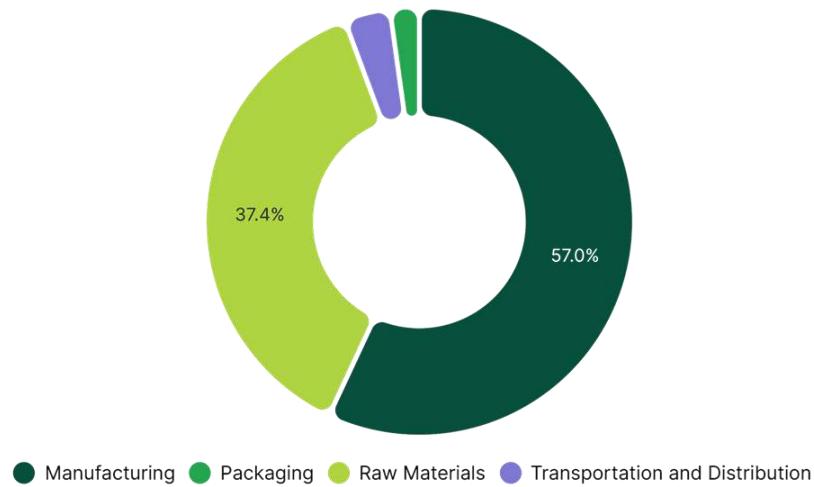
Nu m	Emission Factor	Source	Value	Unit
1	Polyethylene terephthalate, pellets, recycled fibre based Market for polyethylene terephthalate, pellets, recycled fibre based Market activity	ECOINVENT 3.12	1.23	kg
2	Polyethylene terephthalate, granulate, amorphous Market for polyethylene terephthalate, granulate, amorphous Market activity	ECOINVENT 3.12	3.70	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	Corrugated board box Market for corrugated board box Market activity	ECOINVENT 3.12	1.27	kg
6	Packaging film, low density polyethylene Market for packaging film, low density polyethylene Market activity	ECOINVENT 3.12	3.37	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, 60 cm

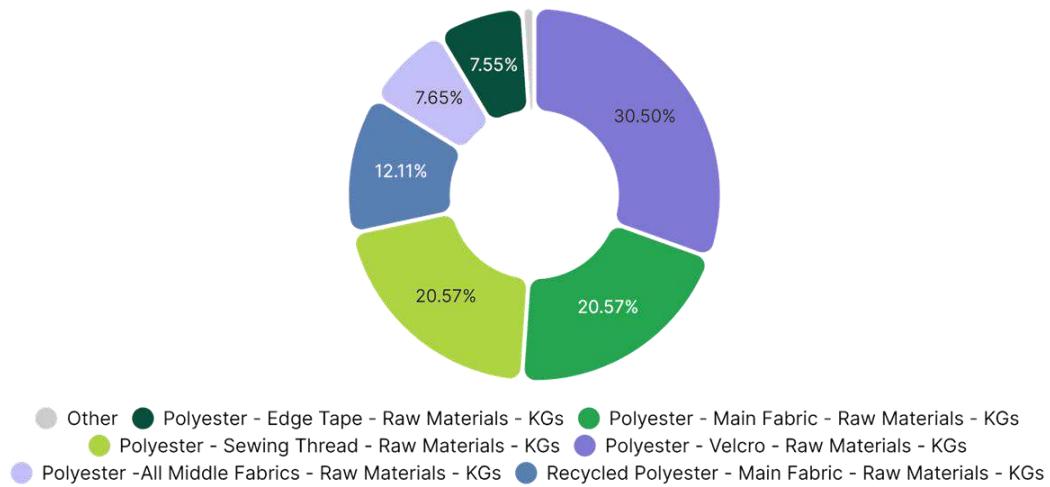
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing	0.54	56.95 %
Raw Materials	0.35	37.39 %
Transportation and Distribution	0.03	3.46 %
Packaging	0.02	2.20 %
TOTAL	0.94	100.00 %

Mikro Vision Health Care Mop, 60 cm

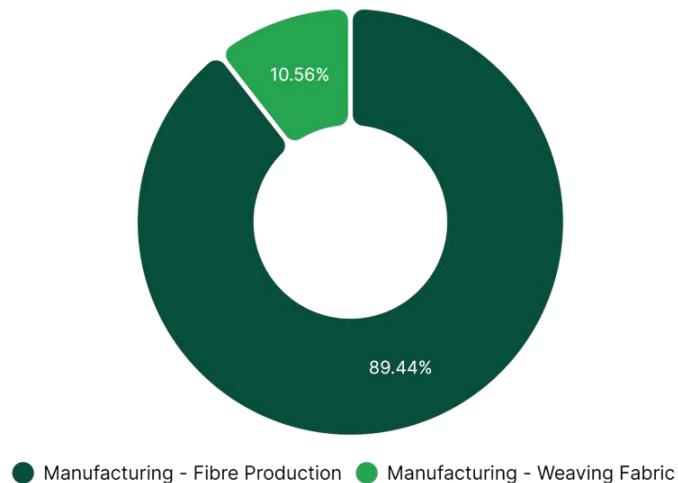
Climate Change - Raw Materials



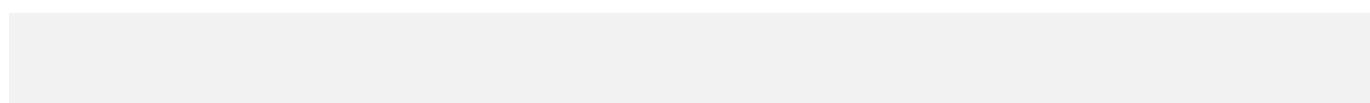
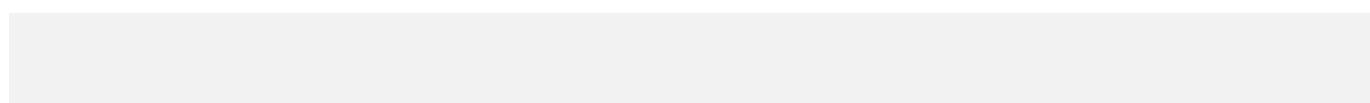
Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester - Velcro - Raw Materials - KGs	2	0.03	kg	0.11	30.50 %
Polyester - Sewing Thread - Raw Materials - KGs	2	0.02	kg	0.07	20.57 %
Polyester - Main Fabric - Raw Materials - KGs	2	0.02	kg	0.07	20.57 %
Recycled Polyester - Main Fabric - Raw Materials - KGs	1	0.03	kg	0.04	12.11 %
Polyester - All Middle Fabrics - Raw Materials - KGs	2	$7.3 \cdot 10^{-3}$	kg	0.03	7.65 %
Polyester - Edge Tape - Raw Materials - KGs	2	$7.2 \cdot 10^{-3}$	kg	0.03	7.55 %
Others				$3.7 \cdot 10^{-3}$	1.05 %
TOTAL				0.35	100.00 %

Mikro Vision Health Care Mop, 60 cm

Climate Change - Manufacturing



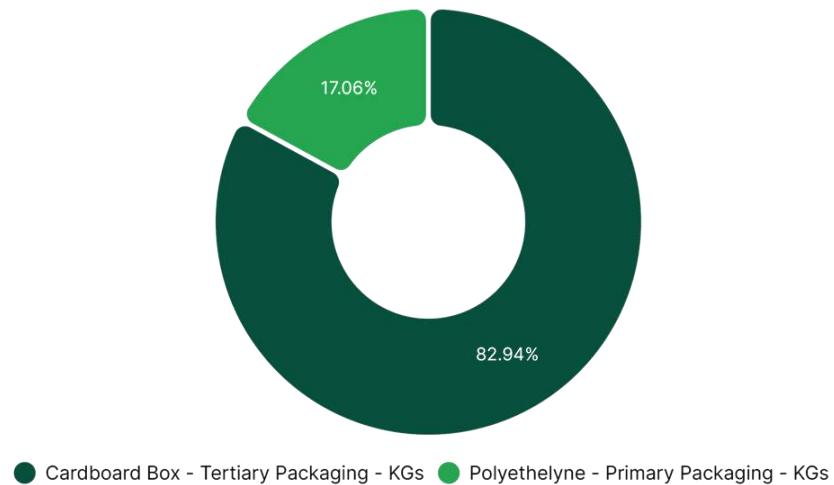
Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing - Fibre Production	4	0.1	kg	0.48	89.44 %
Manufacturing - Weaving Fabric	3	0.1	kg	0.06	10.56 %



TOTAL	0.54	100.00 %
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Mikro Vision Health Care Mop, 60 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	82.94 %
Polyethelyne - Primary Packaging - KGs	6	$1.05 \cdot 10^{-3}$	kg	$3.54 \cdot 10^{-3}$	17.06 %
TOTAL				0.02	100.00 %

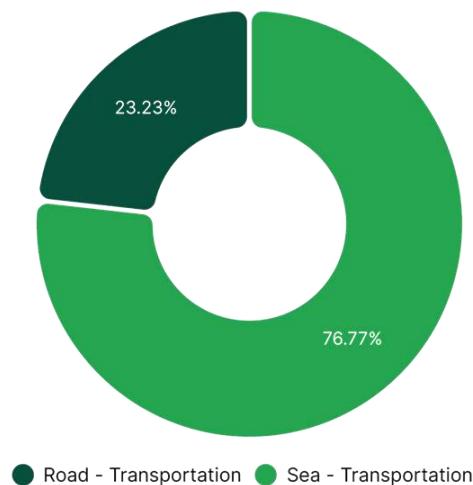
TOTAL

0.02

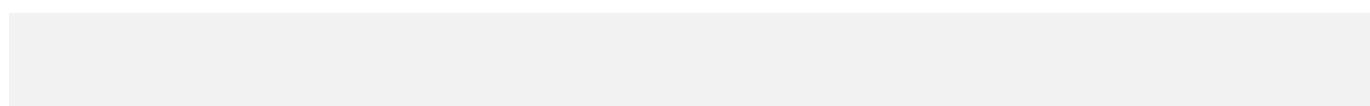
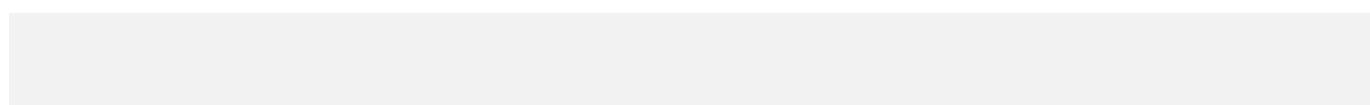
100.00 %

Mikro Vision Health Care Mop, 60 cm

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	7	2.6	metric_t_km	0.03	76.77 %
Road - Transportation	8	0.05	metric_t_km	$7.58 \cdot 10^{-3}$	23.23 %



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.