



Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Mikro Vision 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 'Mikro Vision Mop, 30 cm' (product code: FA-29-33-B) is made of 68% recycled polyester + 24% polyester + 8% polyamide, weighs 0.063 kgs, and is certified under GRS / Swan Ecolabel"
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

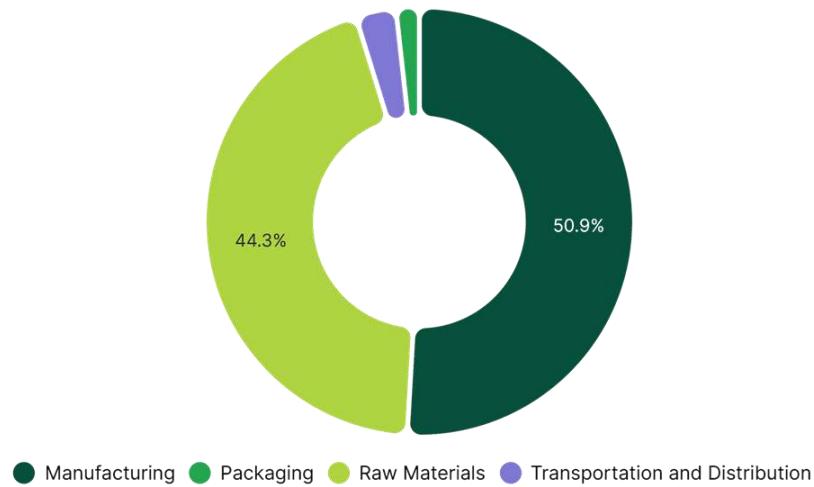
Nu m	Emission Factor	Source	Value	Unit
1	Polyethylene terephthalate, pellets, recycled fibre based Market for polyethylene terephthalate, pellets, recycled fibre based Market activity	ECOINVENT 3.12	1.23	kg
2	Polyethylene terephthalate, granulate, amorphous Market for polyethylene terephthalate, granulate, 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	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

Mikro Vision Mop, 30 cm

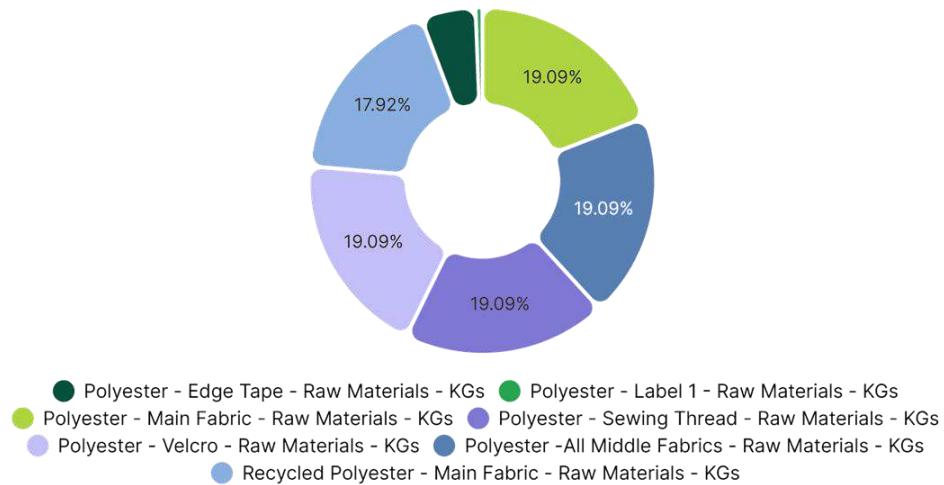
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing	0.33	50.90 %
Raw Materials	0.29	44.31 %
Transportation and Distribution	0.02	3.04 %
Packaging	0.01	1.75 %
TOTAL	0.66	100.00 %

Mikro Vision Mop, 30 cm

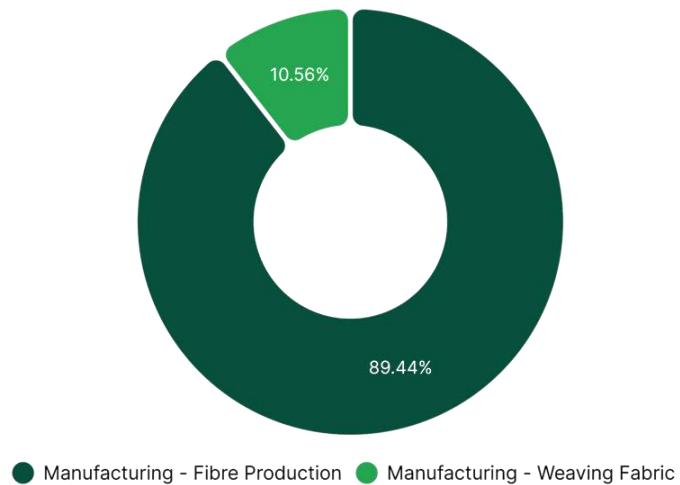
Climate Change - Raw Materials



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester -All Middle Fabrics - Raw Materials - KGs	2	0.02	kg	0.06	19.09 %
Polyester - Sewing Thread - Raw Materials - KGs	2	0.02	kg	0.06	19.09 %
Polyester - Main Fabric - Raw Materials - KGs	2	0.02	kg	0.06	19.09 %
Polyester - Velcro - Raw Materials - KGs	2	0.02	kg	0.06	19.09 %
Recycled Polyester - Main Fabric - Raw Materials - KGs	1	0.04	kg	0.05	17.92 %
Polyester - Edge Tape - Raw Materials - KGs	2	$4 \cdot 10^{-3}$	kg	0.01	5.09 %
Polyester - Label 1 - Raw Materials - KGs	2	$5 \cdot 10^{-4}$	kg	$1.85 \cdot 10^{-3}$	0.64 %
TOTAL				0.29	100.00 %

Mikro Vision Mop, 30 cm

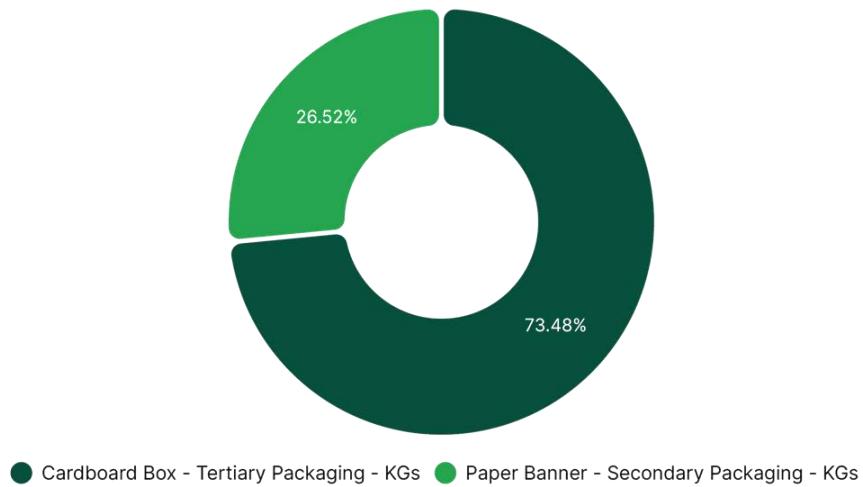
Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing - Fibre Production	4	0.06	kg	0.3	89.44 %
Manufacturing - Weaving Fabric	3	0.06	kg	0.04	10.56 %
TOTAL				0.33	100.00 %

Mikro Vision Mop, 30 cm

Climate Change - Packaging



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box - Tertiary Packaging - KGs	6	$6.66 \cdot 10^{-3}$	kg	$8.43 \cdot 10^{-3}$	73.48 %
Paper Banner - Secondary Packaging - KGs	5	$1.2 \cdot 10^{-3}$	kg	$3.04 \cdot 10^{-3}$	26.52 %
TOTAL				0.01	100.00 %

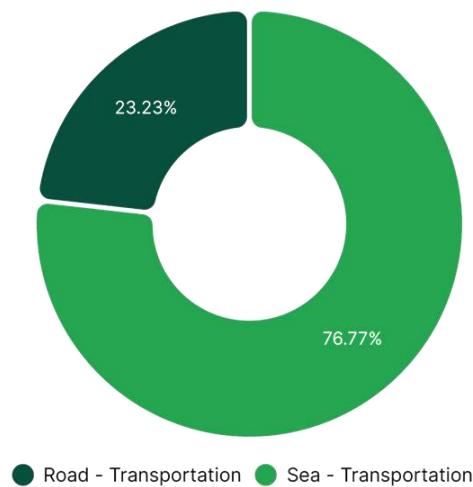
TOTAL

0.01

100.00 %

Mikro Vision Mop, 30 cm

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	8	1.58	metric_t_km	0.02	76.77 %
Road - Transportation	7	0.03	metric_t_km	$4.62 \cdot 10^{-3}$	23.23 %
TOTAL				0.02	100.00 %

TOTAL

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