



Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Lommemoppe til mopstativ, TenTax,
blå, akryl, 80 cm

2025-12-19

Summary



01 | Methodology



02 | Results



01

Methodology

Environmental Impact Assessment

Functional unit	The functional unit of this analysis is "Product 'Lommemoppe til mopstativ, TenTax, blå, akryl, 80 cm' (product code: F-80-A) is made of 100% polyester, weighs 0.214 kgs, and is certified under Oekotex"
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

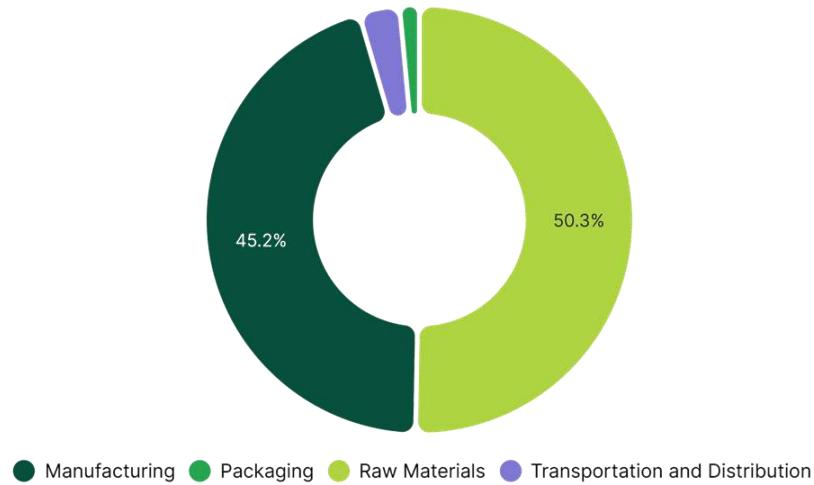
Nu m	Emission Factor	Source	Value	Unit
1	Polyethylene terephthalate, granulate, amorphous Market for polyethylene terephthalate, granulate, amorphous Market activity	ECOINVENT 3.12	3.70	kg
2	Weaving, synthetic fibre Market for weaving, synthetic fibre Market activity	ECOINVENT 3.12	0.56	kg
3	Fibre, polyester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

02

Results

Lommemoppe til mopstativ, TenTax, blå, akryl, 80 cm

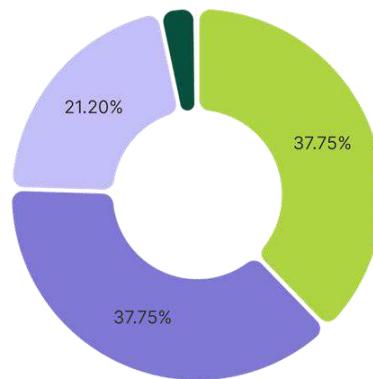
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Materials	1.27	50.28 %
Manufacturing	1.14	45.18 %
Transportation and Distribution	0.08	3.06 %
Packaging	0.04	1.48 %
TOTAL	2.53	100.00 %

Lommemoppe til mopstativ, TenTax, blå, akryl, 80 cm

Climate Change - Raw Materials

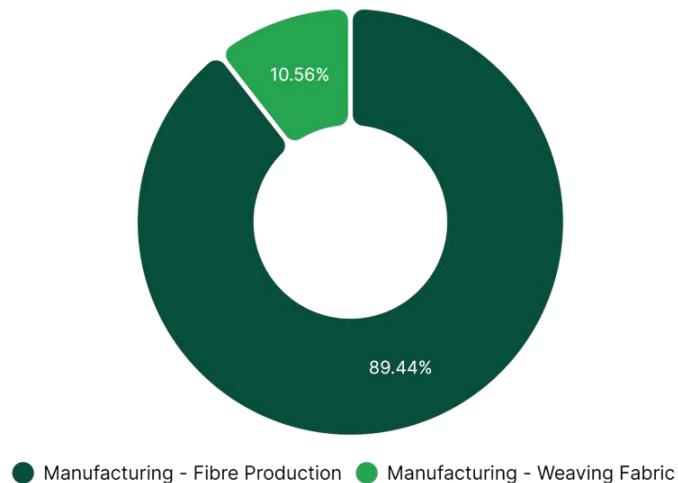


● Polyester - Edge Tape - Raw Materials - KGs ● Polyester - Label 1 - Raw Materials - KGs
● Polyester - Main Fabric - Raw Materials - KGs ● Polyester - Sewing Thread - Raw Materials - KGs
● Polyester - All Middle Fabrics - Raw Materials - KGs

Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester - Sewing Thread - Raw Materials - KGs	1	0.13	kg	0.48	37.75 %
Polyester - Main Fabric - Raw Materials - KGs	1	0.13	kg	0.48	37.75 %
Polyester - All Middle Fabrics - Raw Materials - KGs	1	0.07	kg	0.27	21.20 %
Polyester - Edge Tape - Raw Materials - KGs	1	0.01	kg	0.04	3.14 %
Polyester - Label 1 - Raw Materials - KGs	1	5.8 · 10 ⁻⁴	kg	2.14 · 10 ⁻³	0.17 %
TOTAL				1.27	100.00 %

Lommemoppe til mopstativ, TenTax, blå, akryl, 80 cm

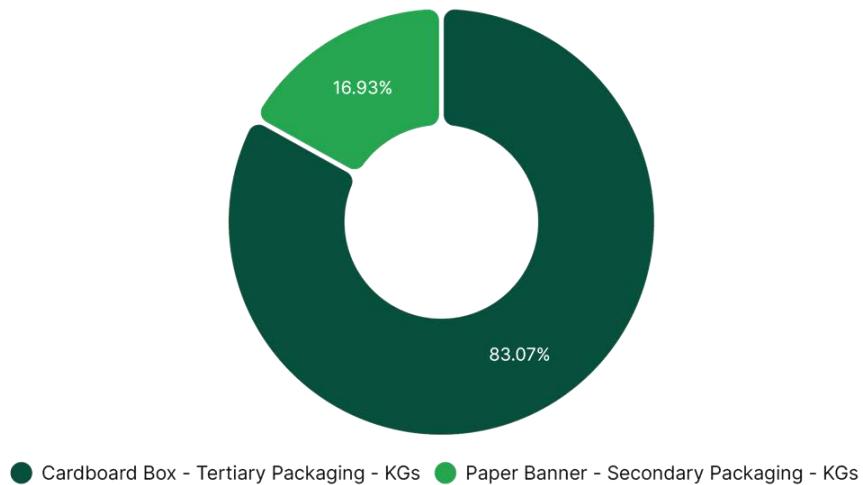
Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing - Fibre Production	3	0.21	kg	1.02	89.44 %
Manufacturing - Weaving Fabric	2	0.21	kg	0.12	10.56 %
TOTAL				1.14	100.00 %

Lommemoppe til mopstativ, TenTax, blå, akryl, 80 cm

Climate Change - Packaging



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box - Tertiary Packaging - KGs	4	0.02	kg	0.03	83.07 %
Paper Banner - Secondary Packaging - KGs	5	$2.5 \cdot 10^{-3}$	kg	$6.34 \cdot 10^{-3}$	16.93 %
TOTAL				0.04	100.00 %

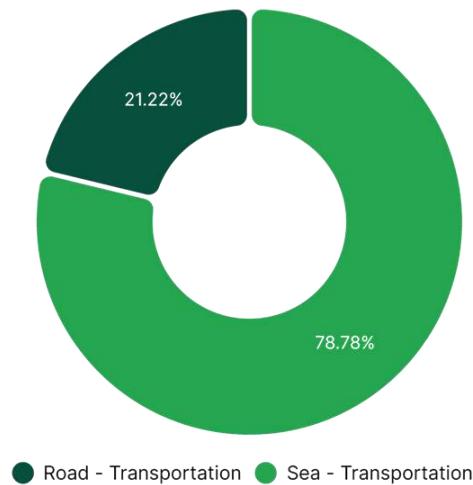
TOTAL

0.04

100.00 %

Lommemoppe til mopstativ, TenTax, blå, akryl, 80 cm

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	6	6.33	metric_t_km	0.06	78.78 %
Road - Transportation	7	0.1	metric_t_km	0.02	21.22 %

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TOTAL		0.08	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.