



Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Lommemoppe til mopstativ, TenTax,
blå, akryl, 100 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, 100 cm' (product code: F-100-A) is made of 100% polyester, weighs 0.262 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

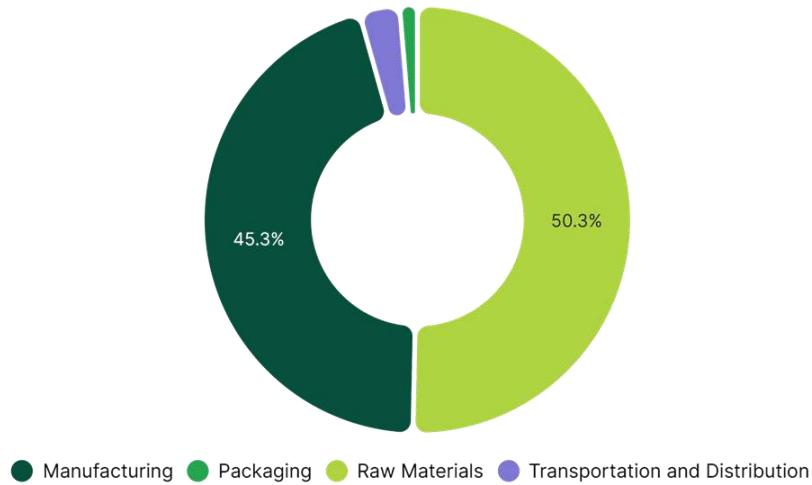
Nu m	Emission Factor	Source	Value	Unit
1	Polyethylene terephthalate, granulate, amorphous Market for polyethylene terephthalate, granulate, amorphous Market activity	ECOINVENT 3.12	3.70	kg
2	Fibre, polyester Polyester fibre production, finished Ordinary transforming activity	ECOINVENT 3.12	4.78	kg
3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

02

Results

Lommemoppe til mopstativ, TenTax, blå, akryl, 100 cm

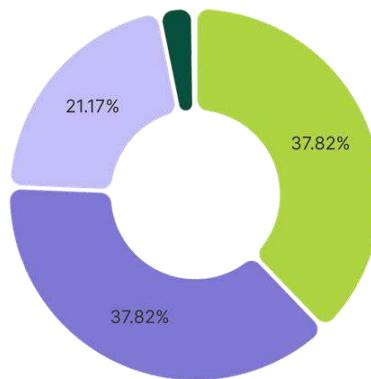
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Materials	1.56	50.33 %
Manufacturing	1.4	45.31 %
Transportation and Distribution	0.09	3.04 %
Packaging	0.04	1.33 %
TOTAL	3.09	100.00 %

Lommemoppe til mopstativ, TenTax, blå, akryl, 100 cm

Climate Change - Raw Materials

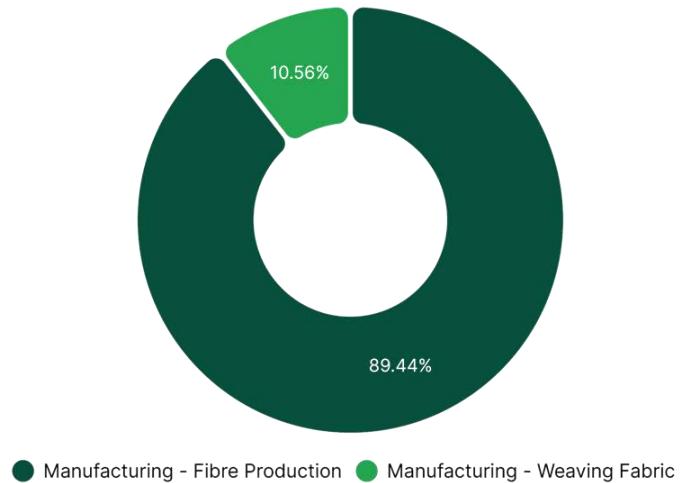


● Polyester - Edge Tape - Raw Materials - KGs ● Polyester - Label 1 - Raw Materials - KGs
● Polyester - Main Fabric - Raw Materials - KGs ● Polyester - Sewing Thread - Raw Materials - KGs
● Polyester - All Middle Fabrics - Raw Materials - KGs

Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester - Main Fabric - Raw Materials - KGs	1	0.16	kg	0.59	37.82 %
Polyester - Sewing Thread - Raw Materials - KGs	1	0.16	kg	0.59	37.82 %
Polyester - All Middle Fabrics - Raw Materials - KGs	1	0.09	kg	0.33	21.17 %
Polyester - Edge Tape - Raw Materials - KGs	1	0.01	kg	0.05	2.97 %
Polyester - Label 1 - Raw Materials - KGs	1	$8.8 \cdot 10^{-4}$	kg	$3.25 \cdot 10^{-3}$	0.21 %
TOTAL				1.56	100.00 %

Lommemoppe til mopstativ, TenTax, blå, akryl, 100 cm

Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing - Fibre Production	2	0.26	kg	1.25	89.44 %
Manufacturing - Weaving Fabric	3	0.26	kg	0.15	10.56 %

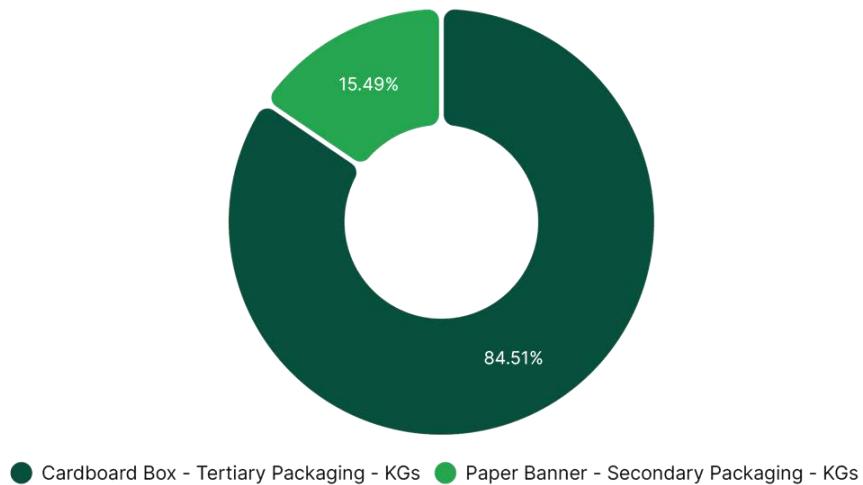
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TOTAL	1.4	100.00 %
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Lommemoppe til mopstativ, TenTax, blå, akryl, 100 cm

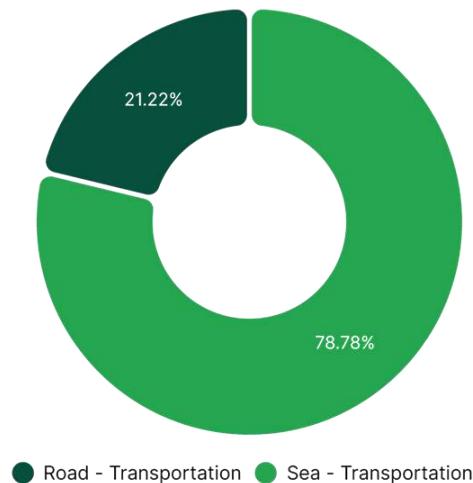
Climate Change - Packaging



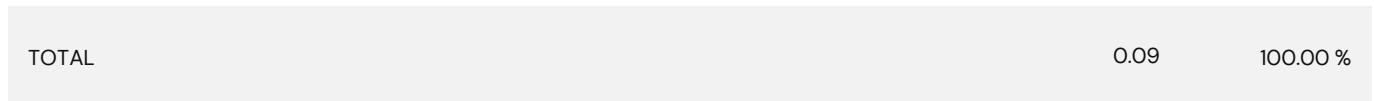
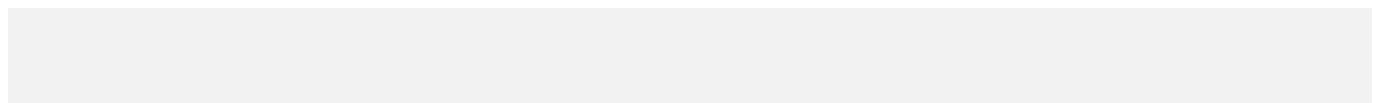
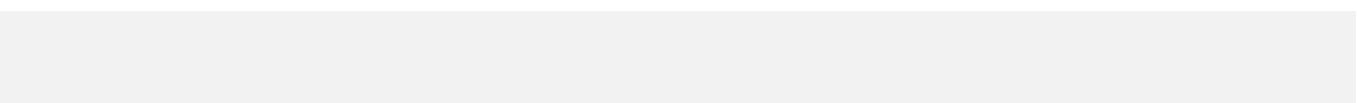
Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box - Tertiary Packaging - KGs	5	0.03	kg	0.03	84.51 %
Paper Banner - Secondary Packaging - KGs	4	$2.5 \cdot 10^{-3}$	kg	$6.34 \cdot 10^{-3}$	15.49 %
TOTAL				0.04	100.00 %

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Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	7	7.66	metric_t_km	0.07	78.78 %
Road - Transportation	6	0.12	metric_t_km	0.02	21.22 %
TOTAL				0.09	100.00 %



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