

Nordisk Microfiber

Life Cycle Assessment Cradle to Gate

Tørmoppe, Clean Plus, hvid,
polyester, 120 cm, med velcro

2025-12-19

Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

Functional unit

The functional unit of this analysis is "Product 'Tørmoppe, Clean Plus, hvid, polyester, 120 cm, med velcro' (product code: 1520) is made of 100% polyester, weighs 0.192 kgs, and is certified under Oeko-tex"

Impact Indicator

The impact is measured through the "EF v3.1 method" method

Hypothesis

The data source for the emission factors is EcolInvent 3.12. The System Model used is allocation, cut-off by classification.

Where data was not available from NMF, conservative estimates have been applied.

Assumptions include; origin of raw materials (GLO, IN averages) and manufacturing processes (GLO averages).

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

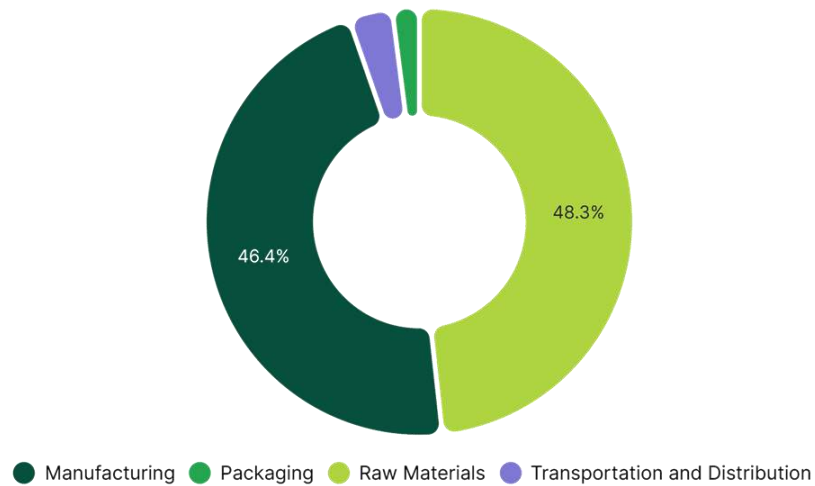
Num	Emission Factor	Source	Value	Unit
1	Polyethylene terephthalate, granulate, amorphous Market for polyethylene terephthalate, granulate, amorphous Market activity	ECOINVENT 3.12	3.70	kg
2	Fibre, polyester Polyester fibre production, finished Ordinary transforming activity	ECOINVENT 3.12	4.78	kg
3	Weaving, 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, 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

Tørmappe, Clean Plus, hvid, polyester, 120 cm, med velcro

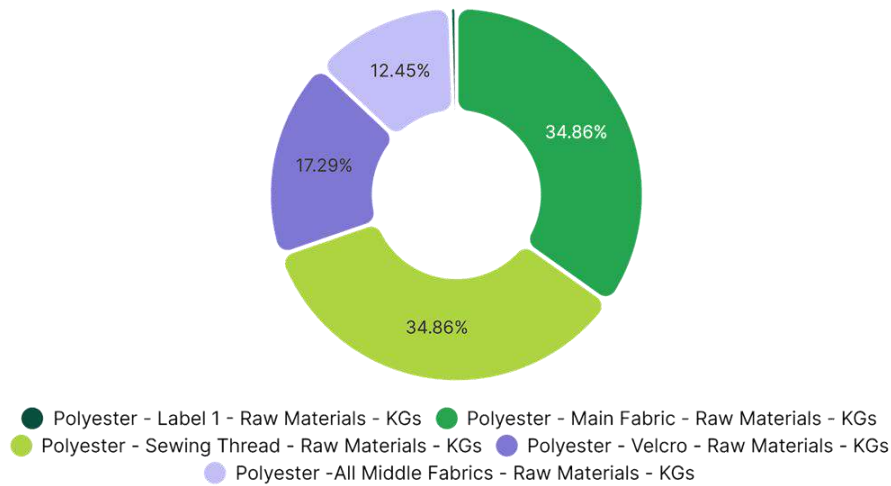
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Materials	1.07	48.28 %
Manufacturing	1.03	46.39 %
Transportation and Distribution	0.07	3.29 %
Packaging	0.05	2.04 %
TOTAL	2.22	100.00 %

Tørroppe, Clean Plus, hvid, polyester, 120 cm, med velcro

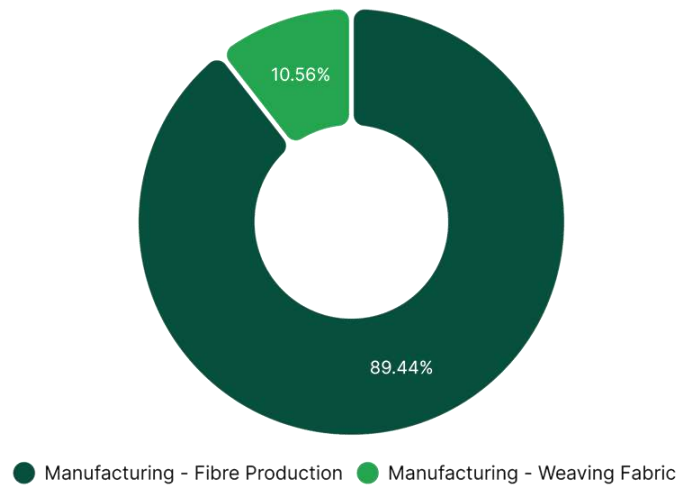
Climate Change - Raw Materials



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Polyester - Main Fabric - Raw Materials - KGs	1	0.1	kg	0.37	34.86 %
Polyester - Sewing Thread - Raw Materials - KGs	1	0.1	kg	0.37	34.86 %
Polyester - Velcro - Raw Materials - KGs	1	0.05	kg	0.19	17.29 %
Polyester -All Middle Fabrics - Raw Materials - KGs	1	0.04	kg	0.13	12.45 %
Polyester - Label 1 - Raw Materials - KGs	1	1.58 · 10 ⁻³	kg	5.84 · 10 ⁻³	0.55 %
TOTAL				1.07	100.00 %

Tørmpoppe, Clean Plus, hvid, polyester, 120 cm, med velcro

Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing – Fibre Production	2	0.19	kg	0.92	89.44 %
Manufacturing – Weaving Fabric	3	0.19	kg	0.11	10.56 %

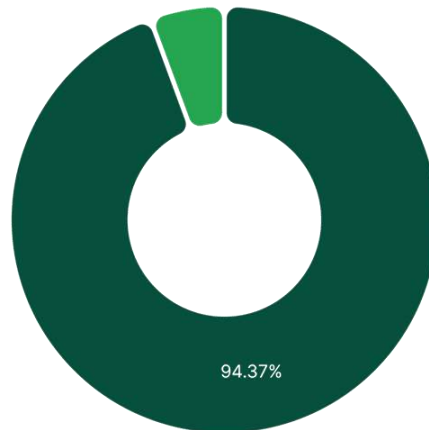
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TOTAL				1.03	100.00 %
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Tørmoppe, Clean Plus, hvid, polyester, 120 cm, med velcro

Climate Change - Packaging



● Cardboard Box - Tertiary Packaging - KGs ● Paper Banner - Secondary Packaging - KGs

Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Cardboard Box - Tertiary Packaging - KGs	5	0.03	kg	0.04	94.37 %
Paper Banner - Secondary Packaging - KGs	4	1 · 10 ⁻³	kg	2.53 · 10 ⁻³	5.63 %

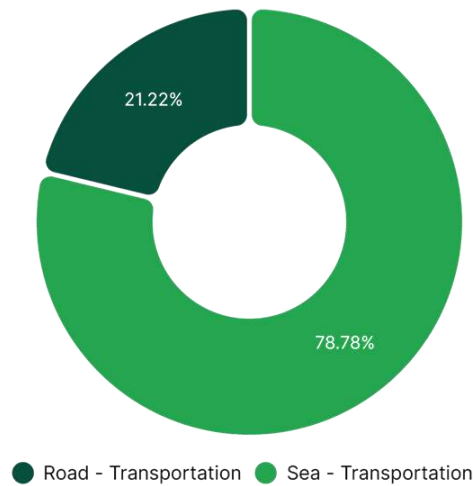
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TOTAL				0.05	100.00 %
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Tørmoppe, Clean Plus, hvid, polyester, 120 cm, med velcro

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO ₂ eq)	Percentage (%)
Sea - Transportation	6	5.96	metric_t_km	0.06	78.78 %
Road - Transportation	7	0.1	metric_t_km	0.02	21.22 %

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TOTAL				0.07	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.