

**greenly**

2025-09-15

Lyreco LCA

# Life Cycle Assessment

*The methodology in this report is based on ISO 14040*

12.004.686 (sold in IT)

# Summary



**01** | Methodology



**02** | Results

# 01

## Methodology

# Environmental Impact Assessment

<b>Functional unit</b>	<p>The functional unit is a quantified performance of a product system for use as a reference unit. One of the primary purposes of a functional unit is to provide a reference to which the input and output data are normalized (in a mathematical sense). The functional unit of this analysis is "".</p>
<b>Impact Indicator</b>	<p>The impact is measured through the "" method.</p>
<b>Electricity impact calculation method</b>	<p>Following guidelines from the GHG Protocol, the impact of electricity is calculated using the location-based approach. This means that the emission factors used represent the average annual carbon intensity of the power grid in the country the processes take place in.</p>
<b>Hypothesis</b>	

# Environmental Impact Assessment

**System Boundaries**

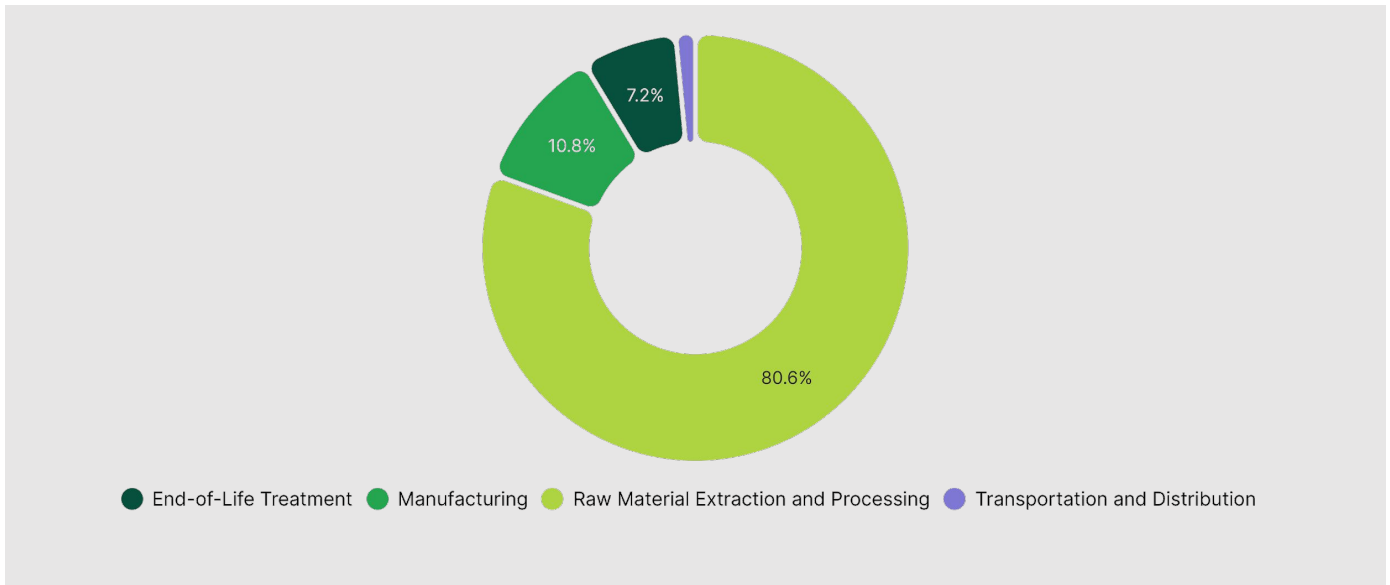
**Exclusions**

# 02

## Results

12.004.686 (sold in IT)

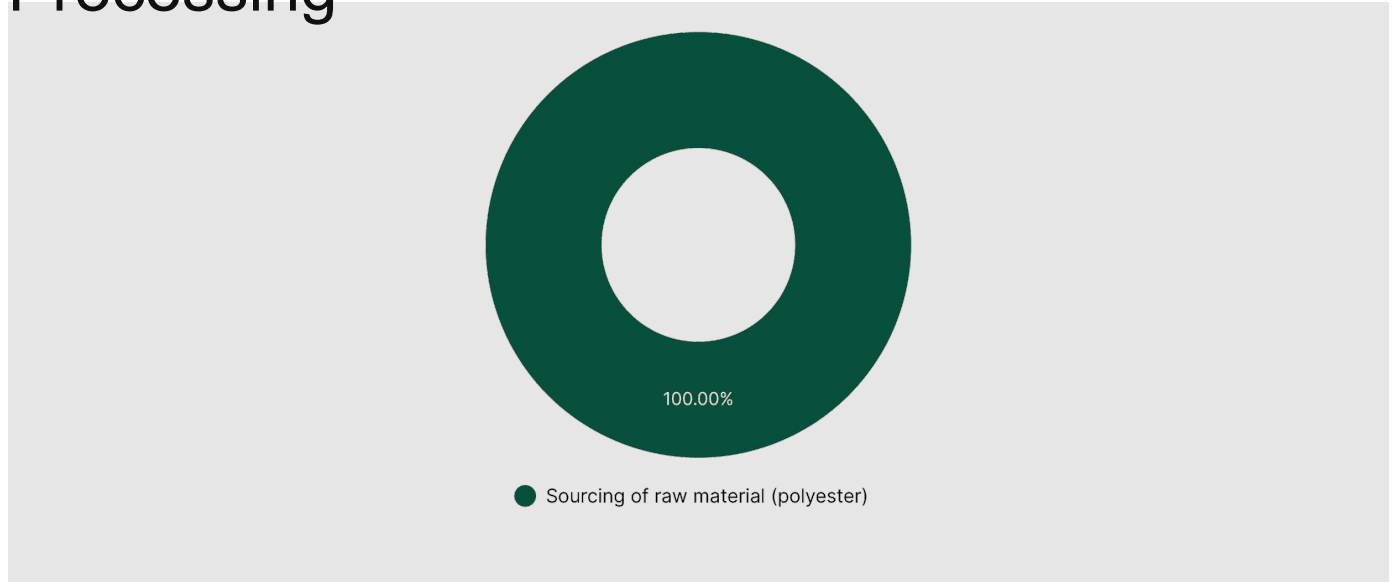
# Climate Change



Step	Impact (kg CO <sub>2</sub> eq)	Percentage (%)
Raw Material Extraction and Processing	2.73	80.56 %
Manufacturing	0.37	10.78 %
End-of-Life Treatment	0.24	7.19 %
Transportation and Distribution	0.05	1.47 %
<b>TOTAL</b>	<b>3.39</b>	<b>100.00 %</b>

12.004.686 (sold in IT)

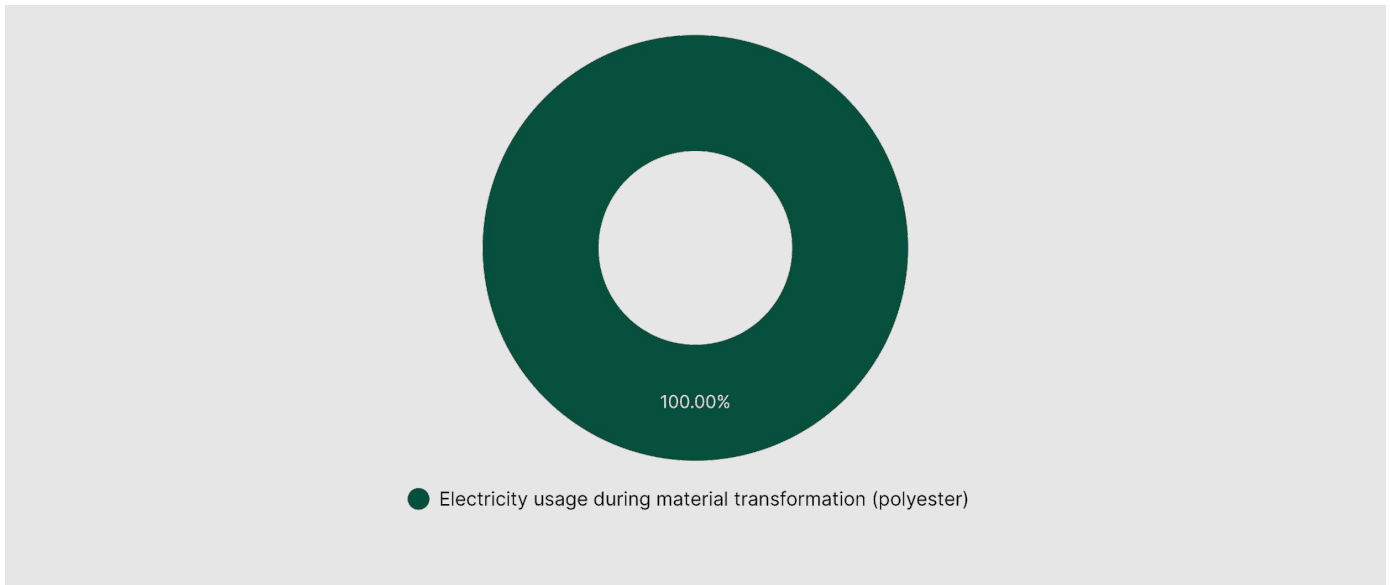
# Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (kg CO <sub>2</sub> eq)	Percentage (%)
Sourcing of raw material (polyester)	1	0.27	2.73	100.00 %
TOTAL			2.73	100.00 %

12.004.686 (sold in IT)

# Climate Change - Manufacturing

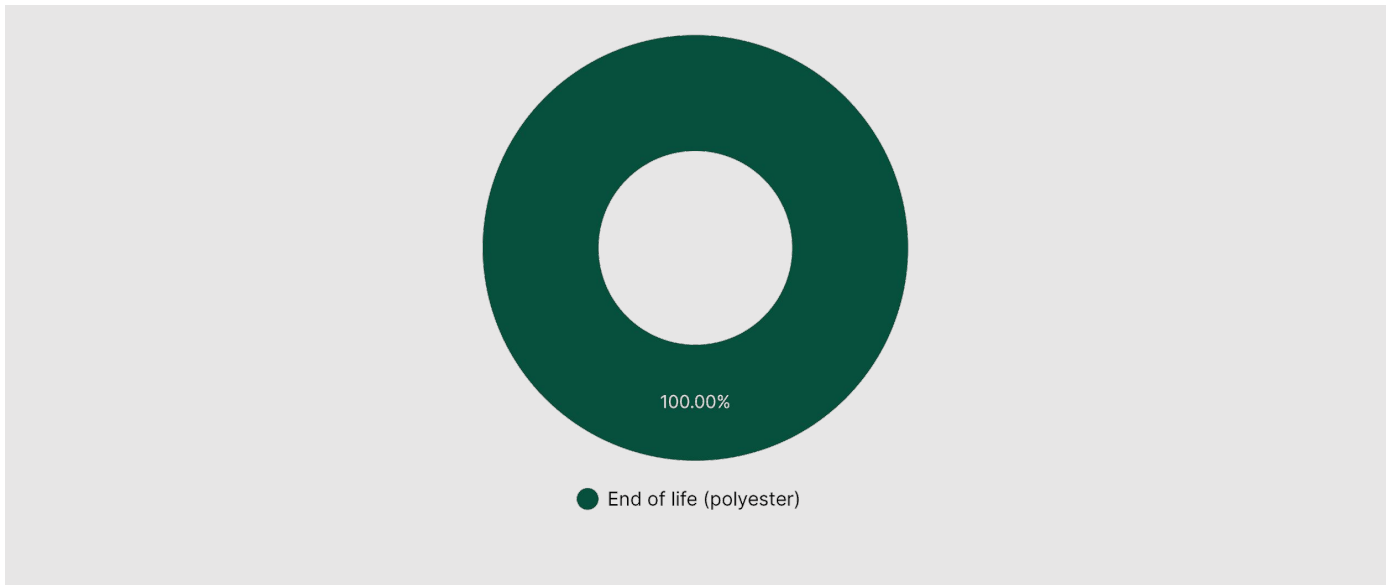


Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Electricity usage during material transformation (polyester)	2	0.51	365.39	100.00 %
TOTAL			365.39	100.00 %



12.004.686 (sold in IT)

# Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
End of life (polyester)	4	0.25	243.81	100.00 %
TOTAL			243.81	100.00 %

# Contact us

Alexis Normand CEO

[www.greenly.earth](http://www.greenly.earth)