

greenly

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Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

7.150.301 (sold in PL)

Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

<p>Functional unit</p>	<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 "24 set(s) of adhesive notes for the purpose of writing".</p>
<p>Impact Indicator</p>	<p>The impact is measured through the "IPCC 2013 GWP 100a" method.</p>
<p>Electricity impact calculation method</p>	<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>
<p>Hypothesis</p>	<p>The Product's material composition is supplemented by secondary information, if necessary, as shown in the list below.</p> <ul style="list-style-type: none"> - paper: paper 99% - binding: adhesive 1% <p>Manufacturing Processes and associated loss percentages are assumed based on materials in the product.</p> <p>The electricity is based on the average in the country of manufacturing.</p> <p>Transportation is based on the common routes between the country of manufacturing and the country of sale.</p> <p>No replacements during the lifetime, therefore there are no emissions corresponding to the usage phase.</p> <p>The End of Life is based on the average waste management process of the materials in the product.</p>

Environmental Impact Assessment

System Boundaries

The scope of this research includes the complete lifecycle of a stack of sticky notes from raw material extraction to disposal options for each material, which is the cradle-to-grave perspective.

Exclusions

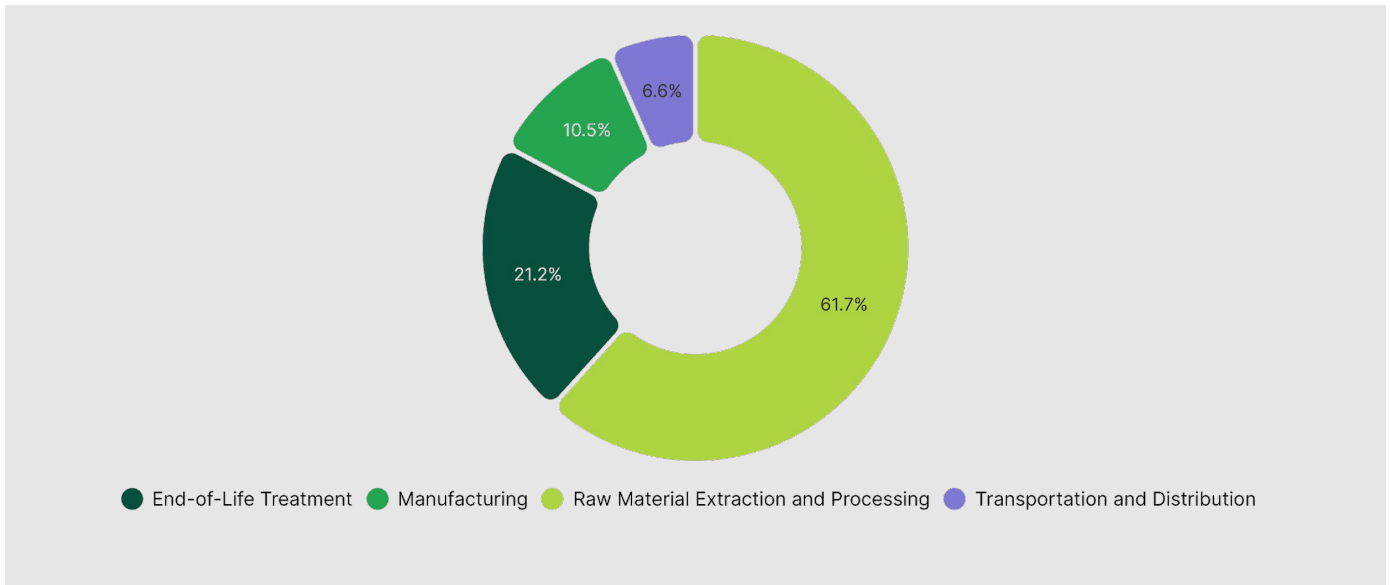
The impact of secondary packaging and writing utensils are excluded from this assessment.

02

Results

7.150.301 (sold in PL)

Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Material Extraction and Processing	1.73	61.69 %
End-of-Life Treatment	0.59	21.17 %
Manufacturing	0.29	10.50 %
Transportation and Distribution	0.19	6.64 %
TOTAL	2.8	100.00 %

7.150.301 (sold in PL)

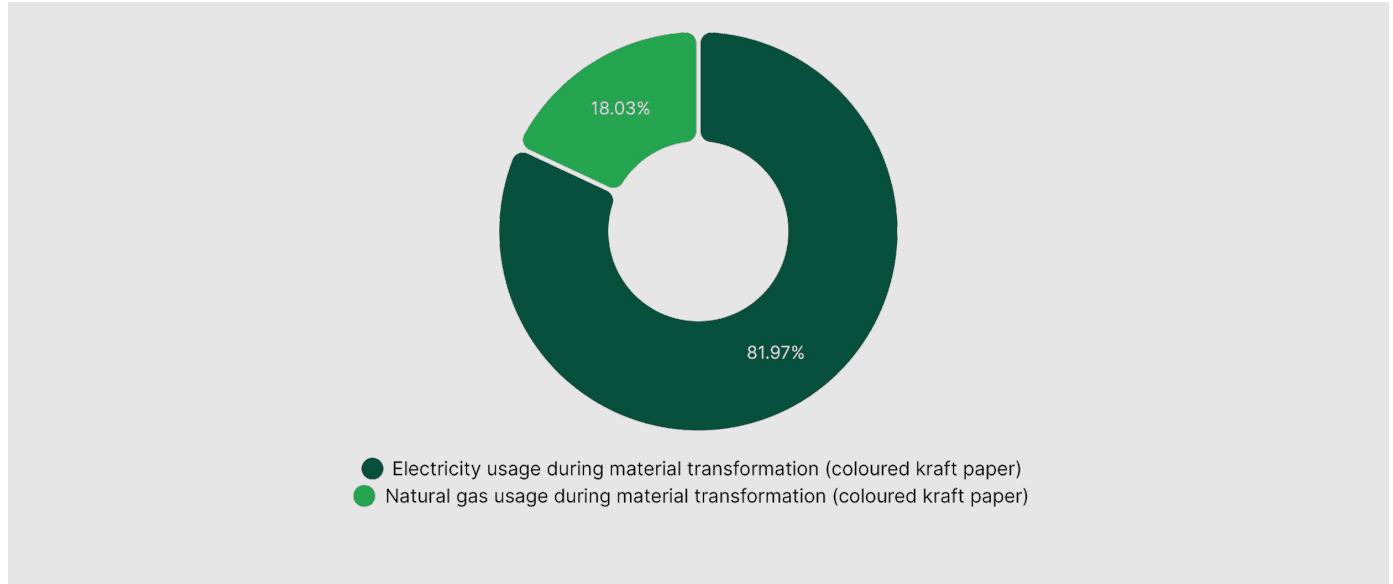
Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (kg CO ₂ eq)	Percentage (%)
Sourcing of raw material (coloured kraft paper)	1	1.54	1.73	100.00 %
TOTAL			1.73	100.00 %

7.150.301 (sold in PL)

Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Electricity usage during material transformation (coloured kraft paper)	2	0.55	240.93	81.97 %
Natural gas usage during material transformation (coloured kraft paper)	3	0.29	53	18.03 %
TOTAL			293.93	100.00 %

7.150.301 (sold in PL)

Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Freight	4	1.03	185.78	100.00 %
TOTAL			185.78	100.00 %

7.150.301 (sold in PL)

Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
End of life (coloured kraft paper)	5	1.03	592.3	100.00 %
TOTAL			592.3	100.00 %

Contact us

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