

greenly

2025-09-15

Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

123.618 (sold in SE)

Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

Functional unit	<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).</p> <p>The functional unit of this analysis is "1 set(s) of adhesive notes for the purpose of writing".</p>
Impact Indicator	<p>The impact is measured through the "IPCC 2013 GWP 100a" method.</p>
Electricity impact calculation method	<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>
Hypothesis	<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

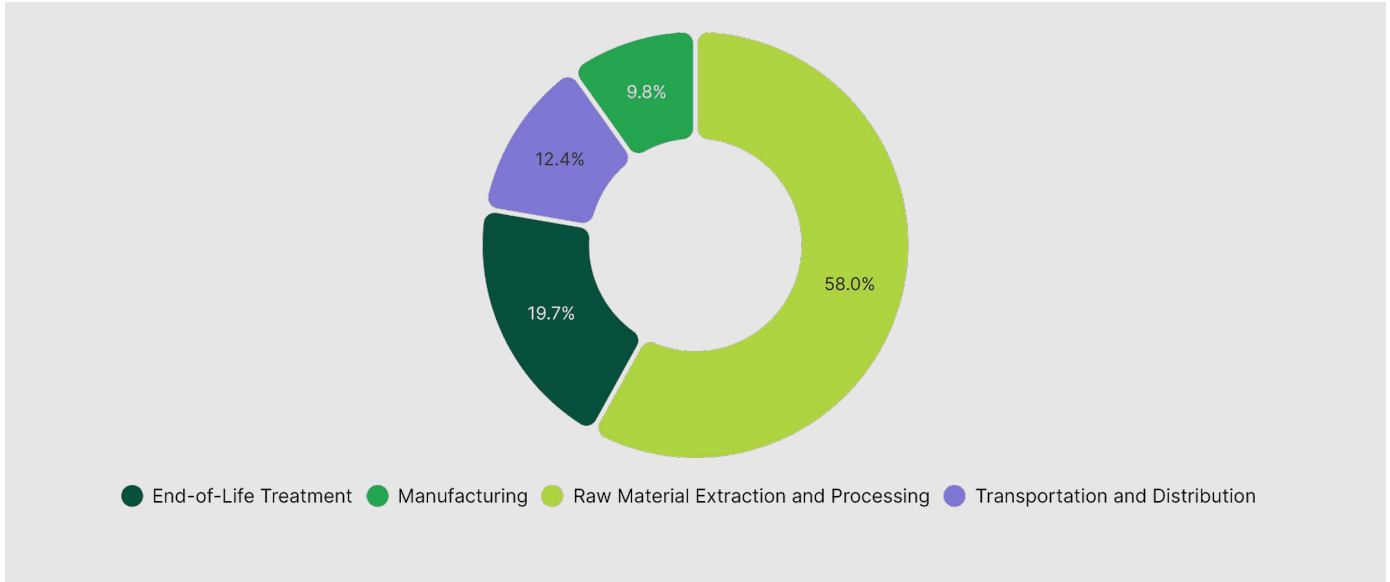
The impact of secondary packaging and writing utensils are excluded from this assessment.

02

Results

123.618 (sold in SE)

Climate Change



Step	Impact (g CO ₂ eq)	Percentage (%)
Raw Material Extraction and Processing	329.12	58.04 %
End-of-Life Treatment	111.58	19.68 %
Transportation and Distribution	70.57	12.44 %
Manufacturing	55.81	9.84 %
TOTAL	567.09	100.00 %

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Climate Change - Raw Material Extraction and Processing



● Sourcing of raw material (adhesive) ● Sourcing of raw material (coloured kraft paper)

Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Sourcing of raw material (coloured kraft paper)	1	0.28	317.67	96.52 %
Sourcing of raw material (adhesive)	2	2.1 · 10 ⁻³	11.45	3.48 %

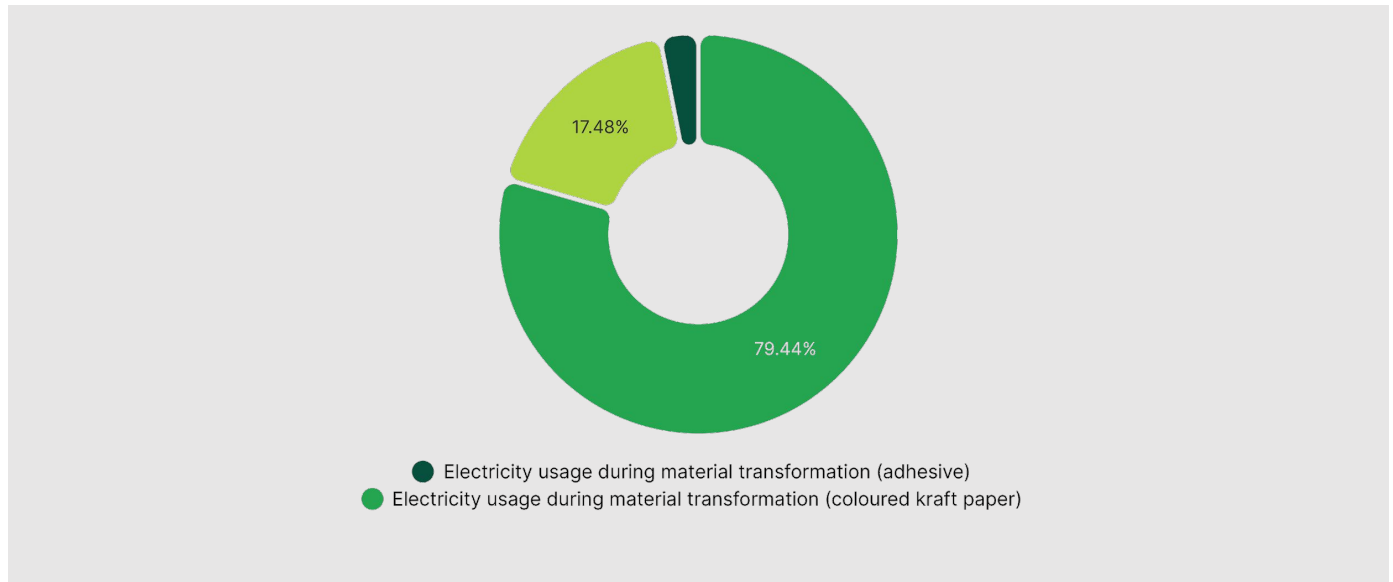
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TOTAL			329.12	100.00 %
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Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Electricity usage during material transformation (coloured kraft paper)	3	0.1	44.34	79.44 %
Natural gas usage during material transformation (coloured kraft paper)	4	0.05	9.75	17.48 %
Electricity usage during material transformation (adhesive)	3	3.89 · 10 ⁻³	1.72	3.09 %
TOTAL			55.81	100.00 %

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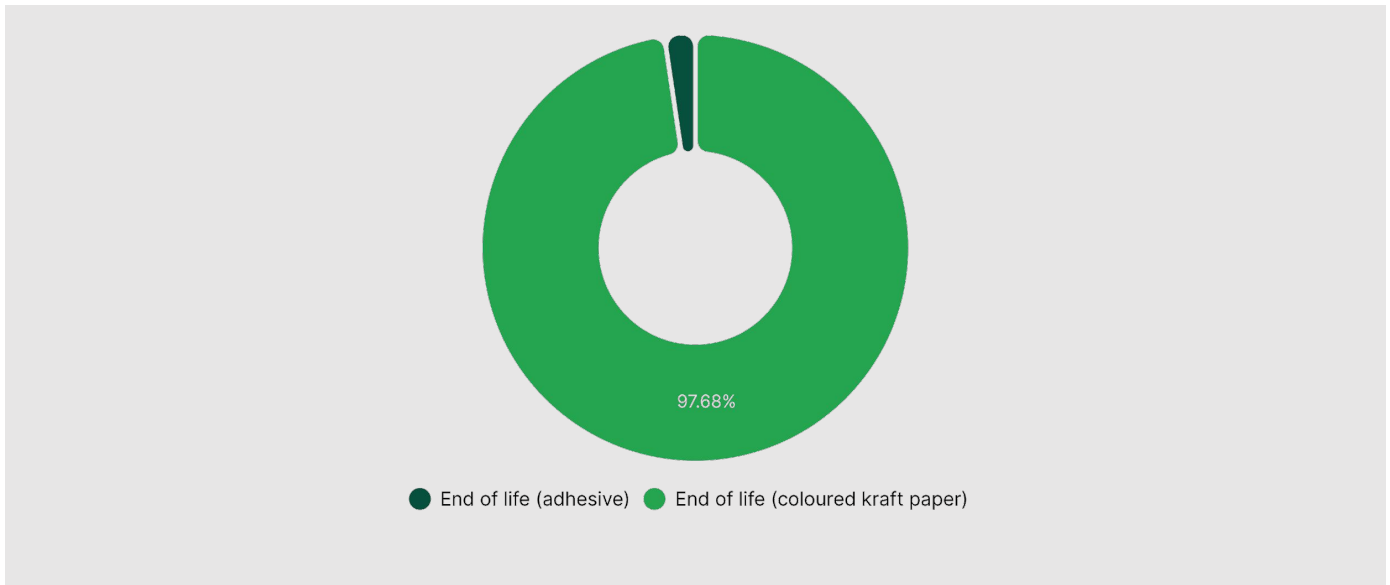
Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Freight	5	0.19	70.57	100.00 %
TOTAL			70.57	100.00 %

123.618 (sold in SE)

Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
End of life (coloured kraft paper)	7	0.19	109	97.68 %
End of life (adhesive)	6	1.91 · 10 ⁻³	2.58	2.32 %
TOTAL			111.58	100.00 %

Contact us

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