

**greenly**

2025-09-15

Lyreco LCA

# Life Cycle Assessment

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

3.771.572 (sold in SE)

# 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).</p> <p>The functional unit of this analysis is "24 set(s) of adhesive notes for the purpose of writing".</p>
<b>Impact Indicator</b>	<p>The impact is measured through the "IPCC 2013 GWP 100a" 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>	<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"> <li>- paper: paper 99%</li> <li>- binding: adhesive 1%</li> </ul> <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

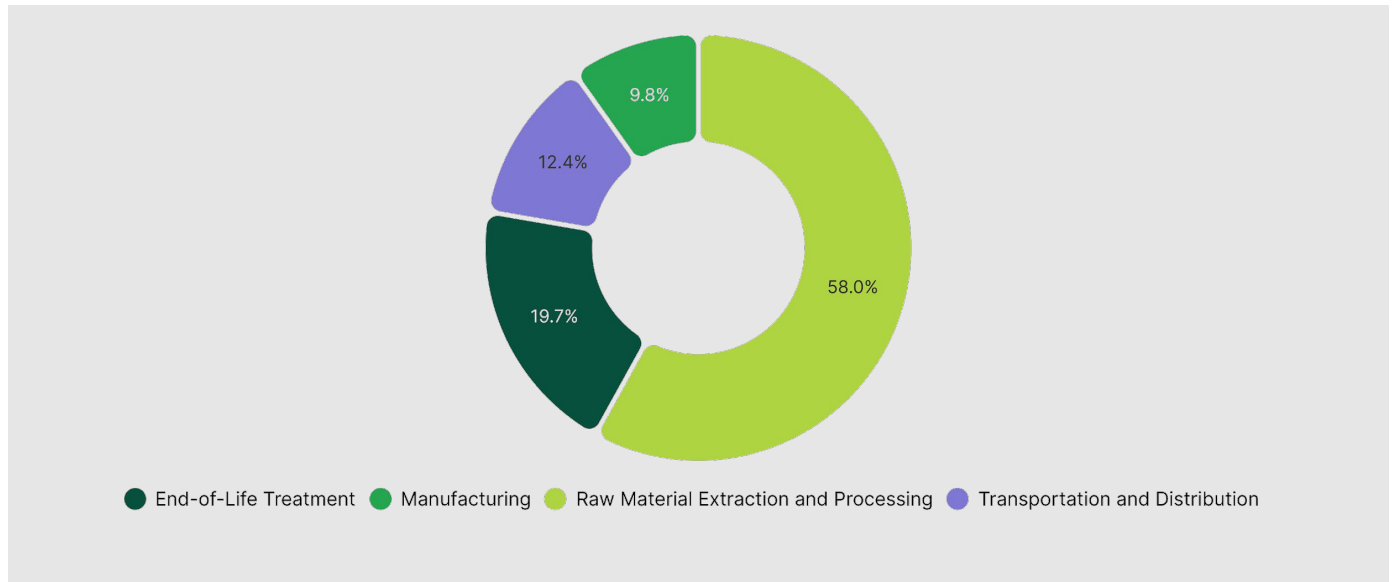
The impact of secondary packaging and writing utensils are excluded from this assessment.

# 02

## Results

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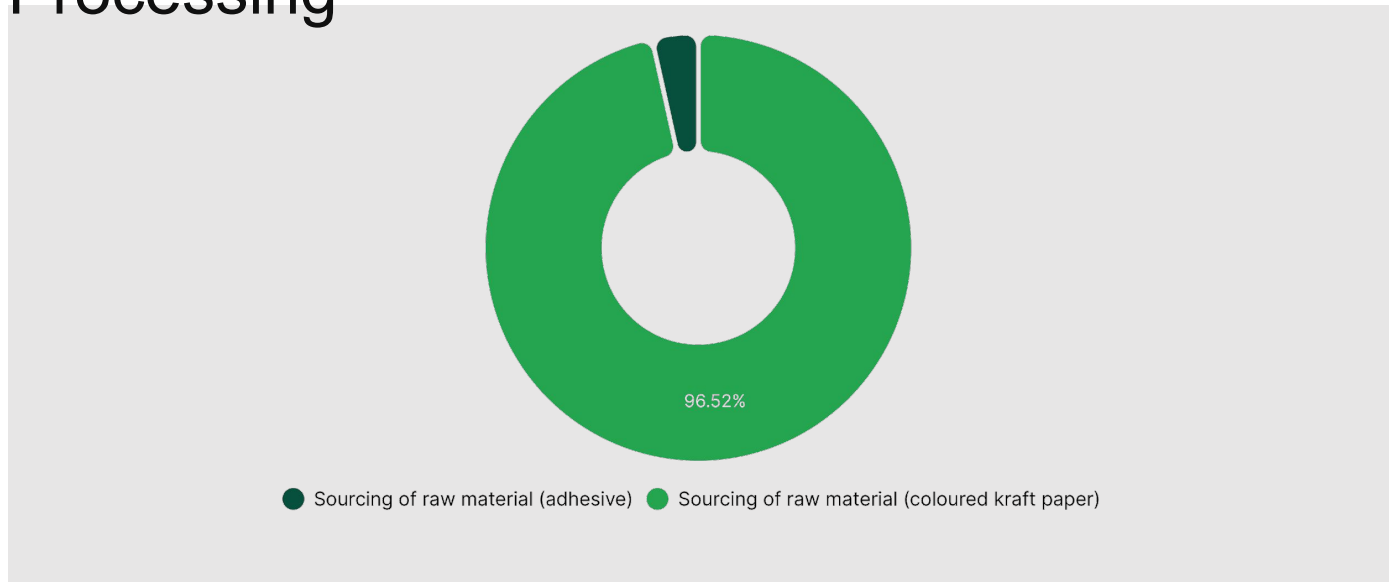
# Climate Change



Step	Impact (kg CO <sub>2</sub> eq)	Percentage (%)
Raw Material Extraction and Processing	0.65	58.04 %
End-of-Life Treatment	0.22	19.68 %
Transportation and Distribution	0.14	12.44 %
Manufacturing	0.11	9.84 %
TOTAL	1.13	100.00 %

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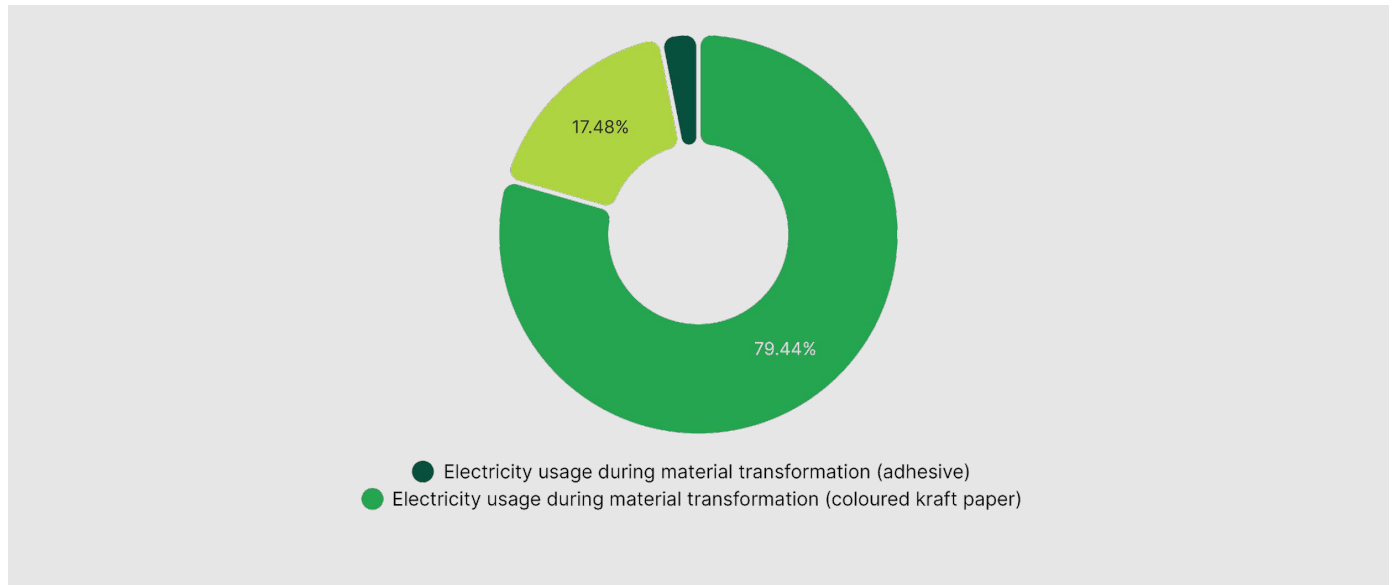
# Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Sourcing of raw material (coloured kraft paper)	2	0.56	632.02	96.52 %
Sourcing of raw material (adhesive)	1	4.17 · 10 <sup>-3</sup>	22.78	3.48 %
TOTAL			654.79	100.00 %

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# Climate Change - Manufacturing

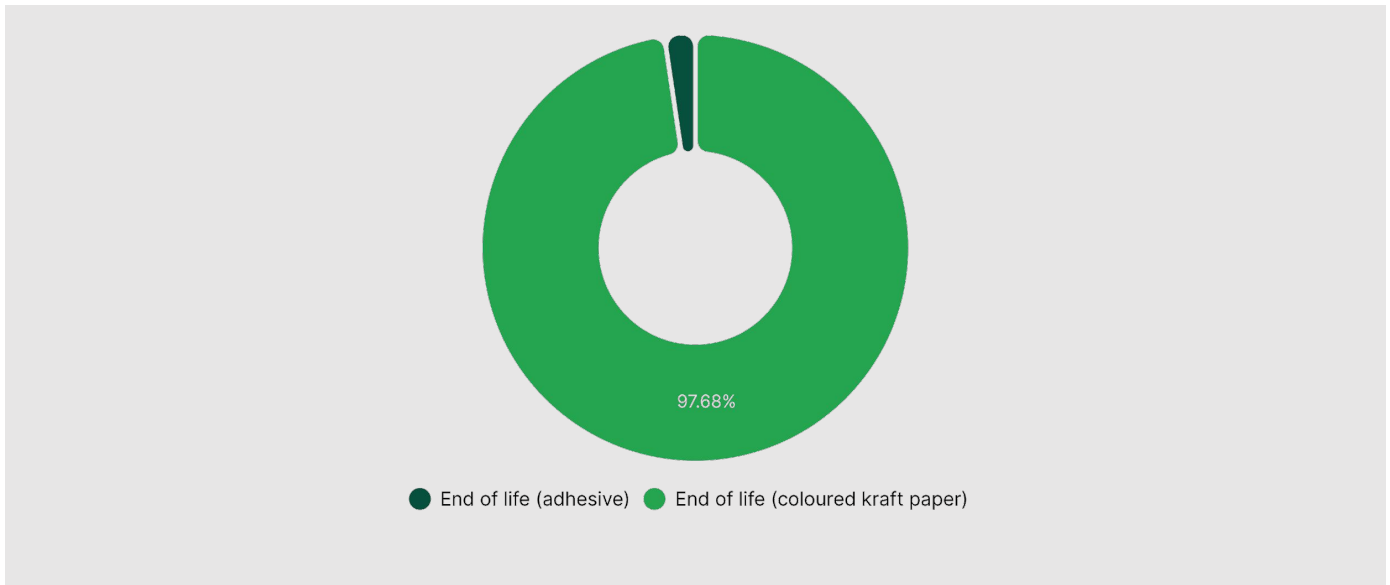


Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Electricity usage during material transformation (coloured kraft paper)	4	0.2	88.21	79.44 %
Natural gas usage during material transformation (coloured kraft paper)	3	0.11	19.41	17.48 %
Electricity usage during material transformation (adhesive)	4	7.75 · 10 <sup>-3</sup>	3.43	3.09 %
TOTAL			111.05	100.00 %



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# Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
End of life (coloured kraft paper)	7	0.38	216.86	97.68 %
End of life (adhesive)	6	3.79 · 10 <sup>-3</sup>	5.14	2.32 %
TOTAL			222	100.00 %

# Contact us

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