

greenly

2025-09-16

Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

16110097 (sold in FR)

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 "6 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

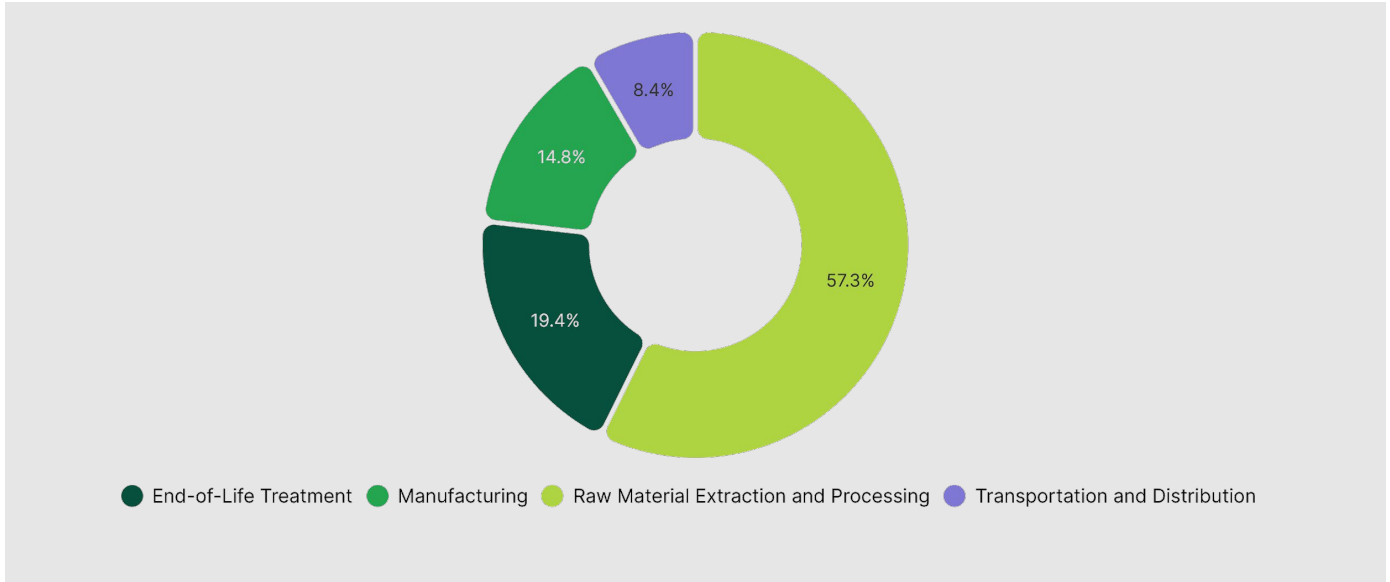
The impact of secondary packaging and writing utensils are excluded from this assessment.

02

Results

16110097 (sold in FR)

Climate Change



| Step | Impact (g CO ₂ eq) | Percentage (%) |
|--|-------------------------------|-----------------|
| Raw Material Extraction and Processing | 450.17 | 57.34 % |
| End-of-Life Treatment | 152.63 | 19.44 % |
| Manufacturing | 116.44 | 14.83 % |
| Transportation and Distribution | 65.91 | 8.39 % |
| TOTAL | 785.14 | 100.00 % |

16110097 (sold in FR)

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) | 2 | 0.39 | 434.51 | 96.52 % |
| Sourcing of raw material (adhesive) | 1 | 2.87 · 10 ⁻³ | 15.66 | 3.48 % |

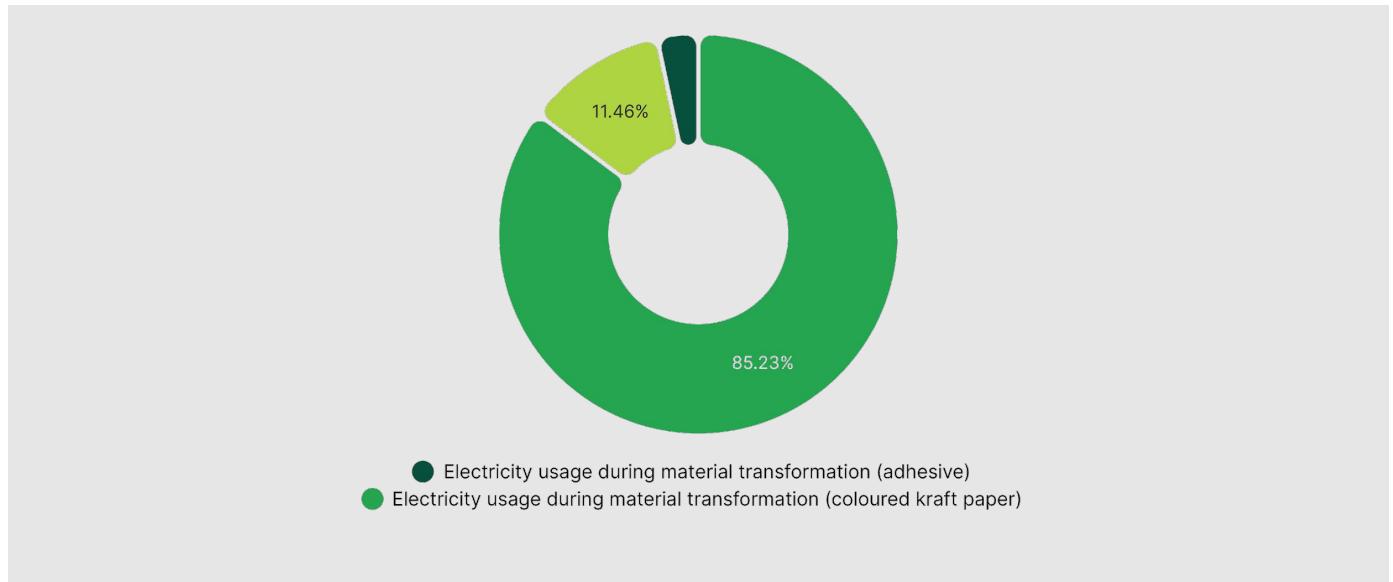
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|-------|--|--|--------|----------|
| TOTAL | | | 450.17 | 100.00 % |
|-------|--|--|--------|----------|

16110097 (sold in FR)

Climate Change - Manufacturing



| Activity | Emission Factor Num | Quantity | Impact (g CO ₂ eq) | Percentage (%) |
|---|---------------------|-------------------------|-------------------------------|----------------|
| Electricity usage during material transformation (coloured kraft paper) | 4 | 0.14 | 99.24 | 85.23 % |
| Natural gas usage during material transformation (coloured kraft paper) | 3 | 0.07 | 13.34 | 11.46 % |
| Electricity usage during material transformation (adhesive) | 4 | 5.33 · 10 ⁻³ | 3.86 | 3.31 % |
| TOTAL | | | 116.44 | 100.00 % |

16110097 (sold in FR)

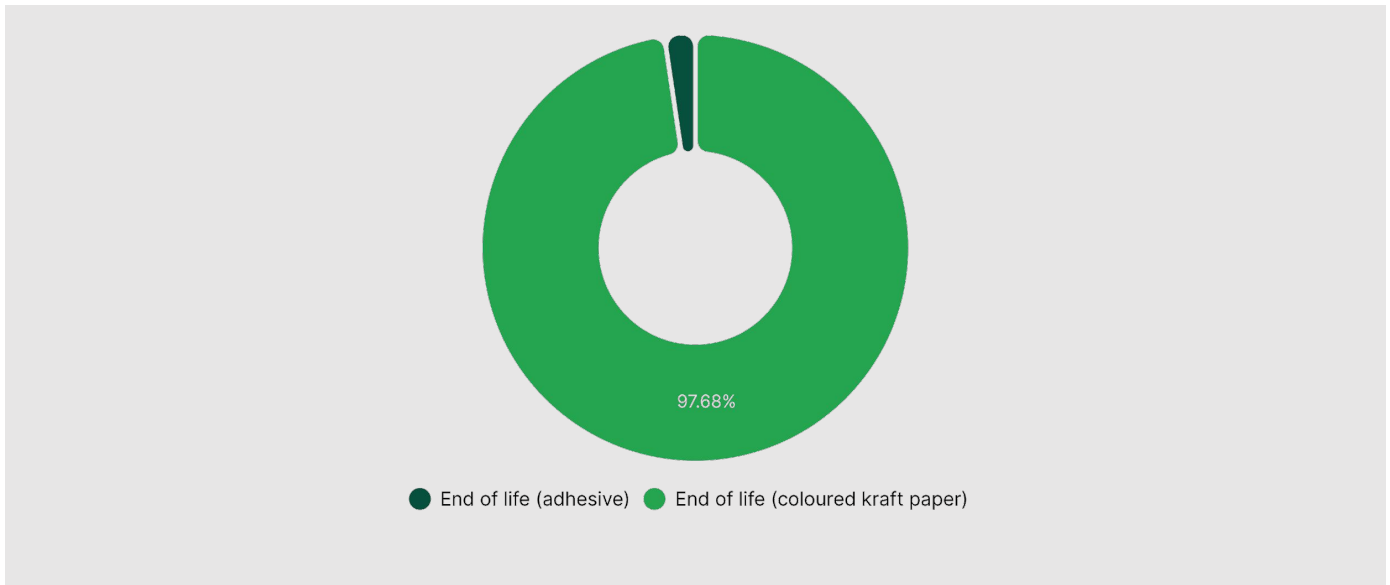
Climate Change - Transportation and Distribution



| Activity | Emission Factor Num | Quantity | Impact (g CO ₂ eq) | Percentage (%) |
|----------|---------------------|----------|-------------------------------|----------------|
| Freight | 5 | 0.26 | 65.91 | 100.00 % |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL | | | 65.91 | 100.00 % |

16110097 (sold in FR)

Climate Change - End-of-Life Treatment



| Activity | Emission Factor Num | Quantity | Impact (g CO ₂ eq) | Percentage (%) |
|------------------------------------|---------------------|-------------------------|-------------------------------|----------------|
| End of life (coloured kraft paper) | 6 | 0.26 | 149.09 | 97.68 % |
| End of life (adhesive) | 7 | 2.61 · 10 ⁻³ | 3.53 | 2.32 % |
| TOTAL | | | 152.63 | 100.00 % |

Contact us

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