

greenly

2025-09-15

Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

10.059.864 (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 "3 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

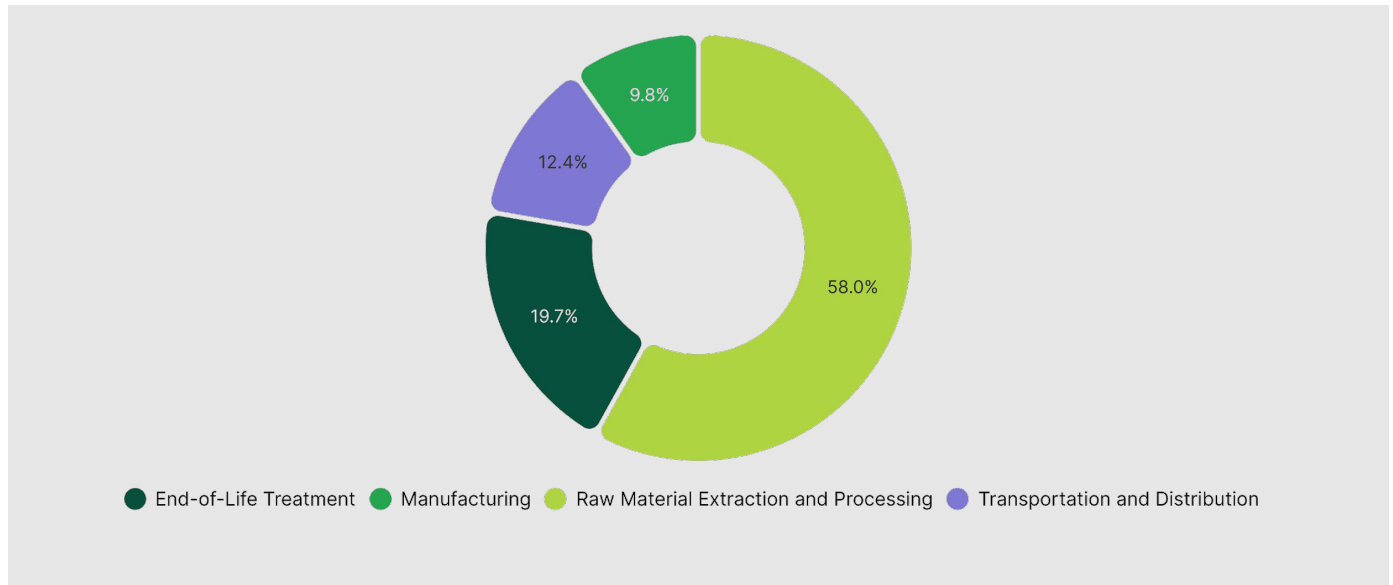
The impact of secondary packaging and writing utensils are excluded from this assessment.

02

Results

10.059.864 (sold in SE)

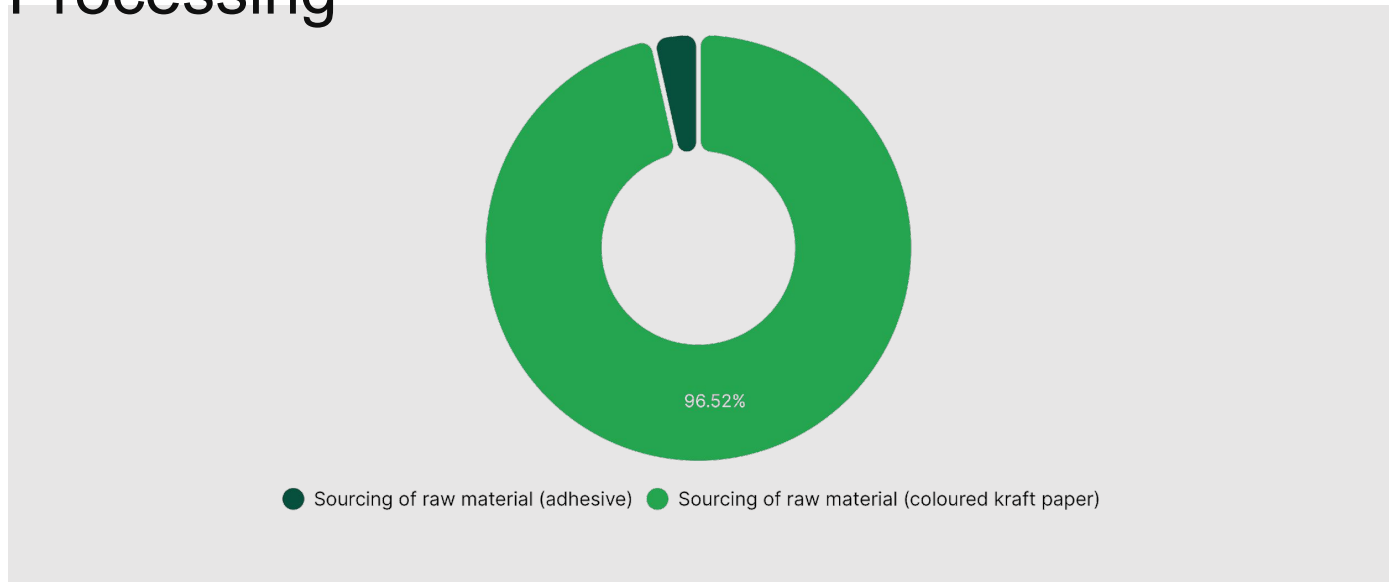
Climate Change



| Step | Impact (g CO ₂ eq) | Percentage (%) |
|--|-------------------------------|----------------|
| Raw Material Extraction and Processing | 560.02 | 58.04 % |
| End-of-Life Treatment | 189.87 | 19.68 % |
| Transportation and Distribution | 120.08 | 12.44 % |
| Manufacturing | 94.97 | 9.84 % |
| TOTAL | 964.94 | 100.00 % |

10.059.864 (sold in SE)

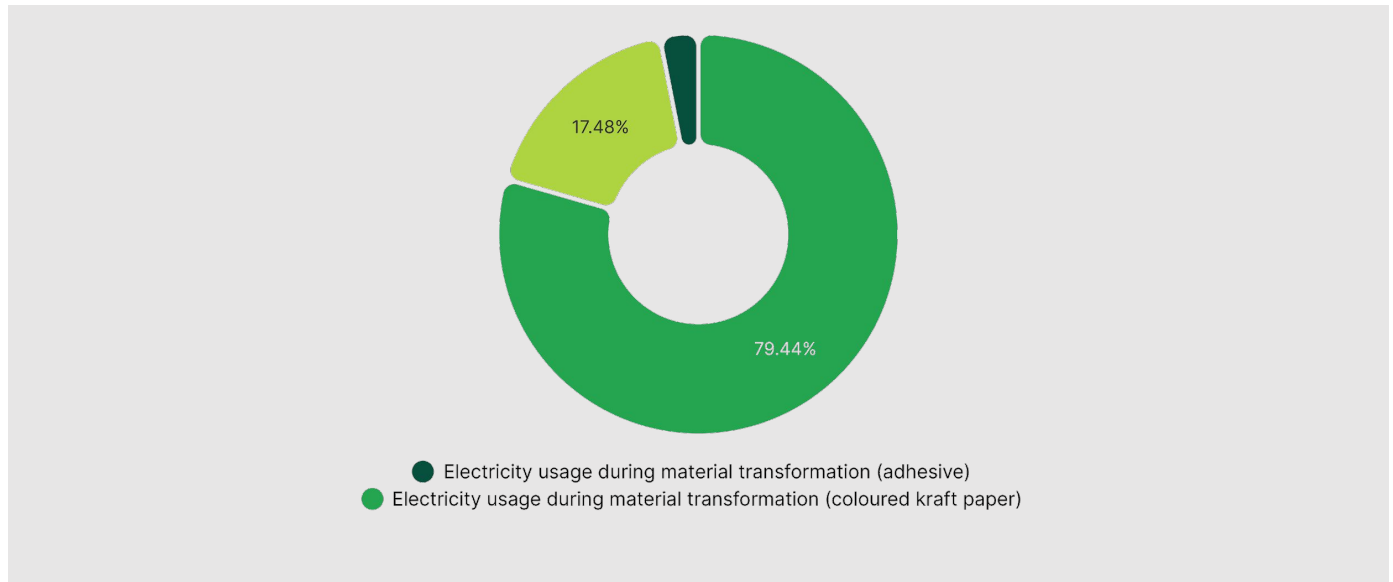
Climate Change - Raw Material Extraction and Processing



| Activity | Emission Factor Num | Quantity | Impact (g CO ₂ eq) | Percentage (%) |
|---|---------------------|-------------------------|-------------------------------|----------------|
| Sourcing of raw material (coloured kraft paper) | 1 | 0.48 | 540.54 | 96.52 % |
| Sourcing of raw material (adhesive) | 2 | 3.57 · 10 ⁻³ | 19.48 | 3.48 % |
| TOTAL | | | 560.02 | 100.00 % |

10.059.864 (sold in SE)

Climate Change - Manufacturing



| Activity | Emission Factor Num | Quantity | Impact (g CO ₂ eq) | Percentage (%) |
|---|---------------------|-------------------------|-------------------------------|----------------|
| Electricity usage during material transformation (coloured kraft paper) | 3 | 0.17 | 75.44 | 79.44 % |
| Natural gas usage during material transformation (coloured kraft paper) | 4 | 0.09 | 16.6 | 17.48 % |
| Electricity usage during material transformation (adhesive) | 3 | 6.63 · 10 ⁻³ | 2.93 | 3.09 % |
| TOTAL | | | 94.97 | 100.00 % |

10.059.864 (sold in SE)

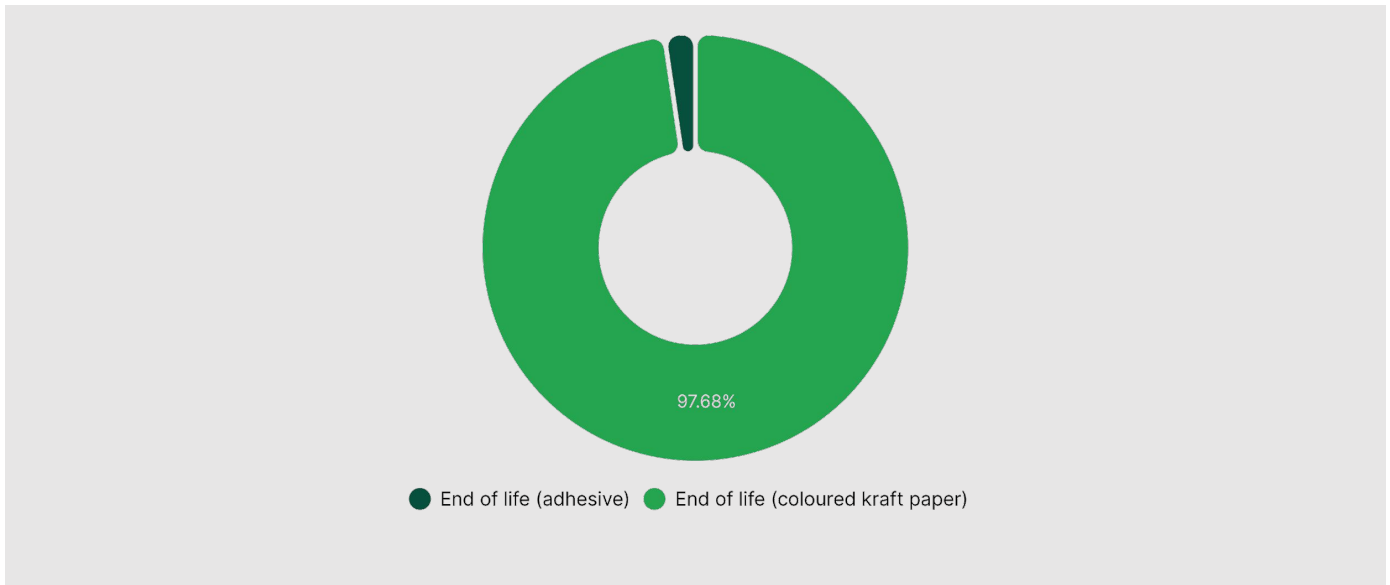
Climate Change - Transportation and Distribution



| Activity | Emission Factor Num | Quantity | Impact (g CO ₂ eq) | Percentage (%) |
|----------|---------------------|----------|-------------------------------|----------------|
| Freight | 5 | 0.32 | 120.08 | 100.00 % |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL | | | 120.08 | 100.00 % |

10.059.864 (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 | 0.32 | 185.47 | 97.68 % |
| End of life (adhesive) | 6 | 3.24 · 10 ⁻³ | 4.4 | 2.32 % |
| TOTAL | | | 189.87 | 100.00 % |

Contact us

Alexis Normand CEO

www.greenly.earth