

Life Cycle Analyses

DOORPOP1 N



Summary



01 | Methodology



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01

Methodology

Environmental Impact Assessment

Functional unit

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). Therefore, the functional unit shall be clearly defined and measurable.

Impact Indicator

The impact is measured through the "IPCC 2021 GWP100" method

Electricity impact calculation method

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.

Life Cycle Analyses

Cradle to grave

Emission Factor Inventory

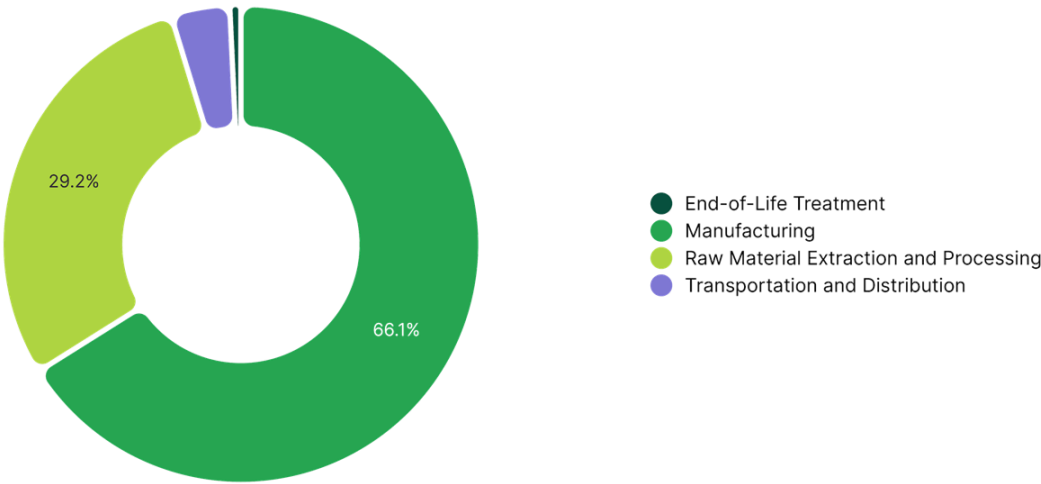
Num	Emission Factor	Source	Value	Unit
1	Tube insulation, elastomere Ordinary transforming activity	ECOINVENT 3.10	4.8862661	kg
2	Electricity Total (Scope 2 & 3) People's Republic of China	IEA 2023	0.7231	kWh
3	Freight Boat From CN to FR	WELOW EXPERTS 1.0	0.25227278	kg
4	Residues, MSWI, waste rubber, unspecified Ordinary transforming activity	ECOINVENT 3.10	0.3380807553	kg

02

Results

Door stop

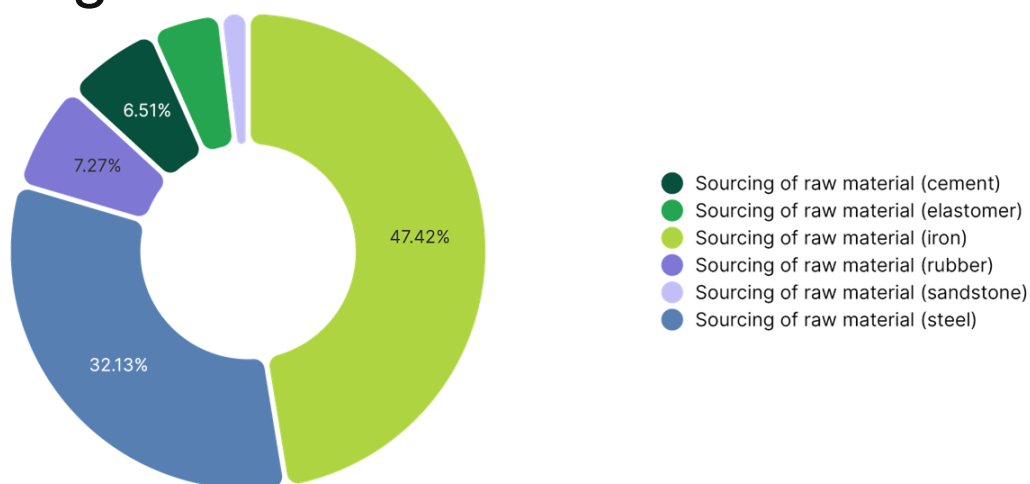
Climate Change



Step	Impact (g CO ₂ eq)	Percentage (%)
Raw Material Extraction and Processing	268.74	63.26 %
Manufacturing	126.54	29.79 %
End-of-Life Treatment	16.9	3.98 %
Transportation and Distribution	12.61	2.97 %
TOTAL	425	100.00 %

Door stop

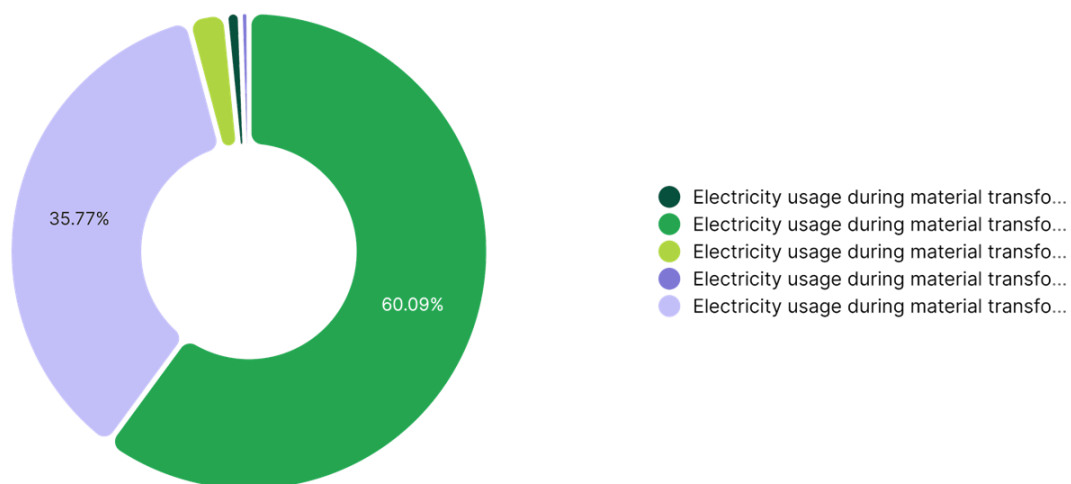
Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Sourcing of raw material (elastomer)	1	0.06	268.74	100.00 %
TOTAL			268.74	100.00 %

Door stop

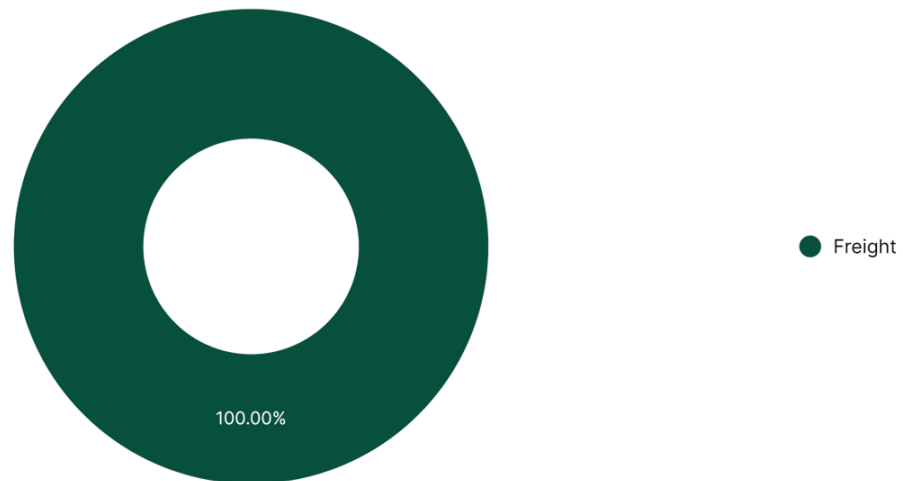
Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Electricity usage during material transformation (elastomer)	2	0.18	126.54	100.00 %
TOTAL			126.54	100.00 %

Door stop

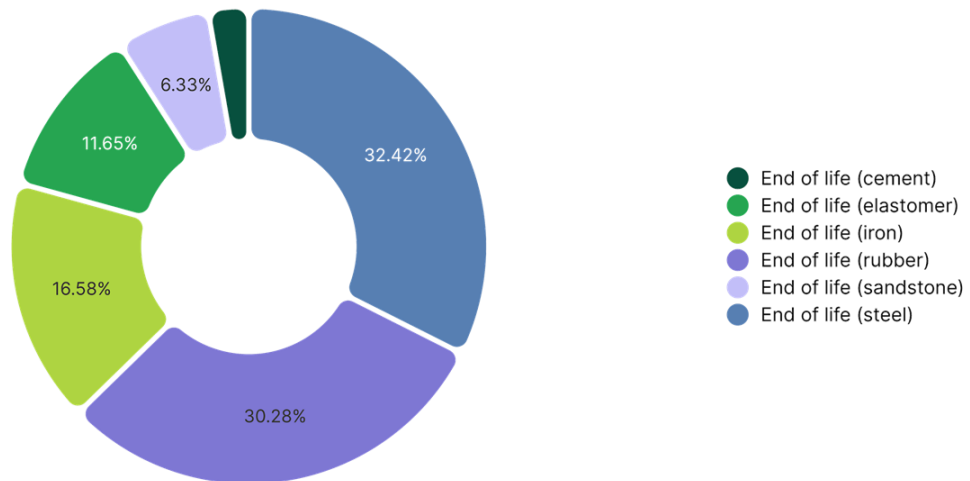
Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Freight	3	0.05	12.61	100.00 %
TOTAL			12.61	100.00 %

Door stop

Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
End of life (elastomer)	4	0.05	16.9	100.00 %
TOTAL			16.9	100.00 %

