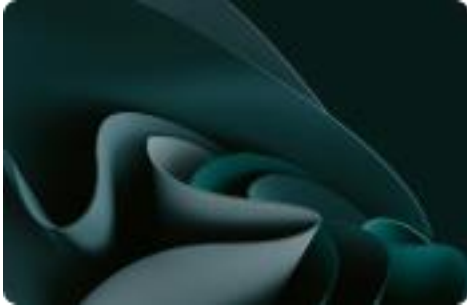


Life Cycle Analyses

MHMOUSPAD



Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

<p>Functional unit</p>	<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). Therefore, the functional unit shall be clearly defined and measurable.</p>
<p>Impact Indicator</p>	<p>The impact is measured through the "IPCC 2021 GWP100" method</p>
<p>Electricity impact calculation method</p>	<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>
<p>Life Cycle Analyses</p>	<p>Cradle to grave</p>

Emission Factor Inventory

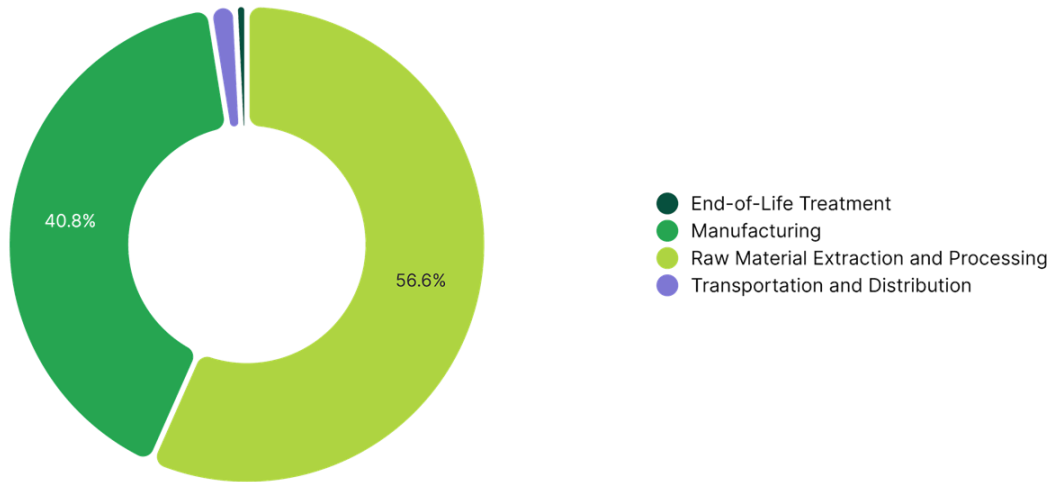
Num	Emission Factor	Source	Value	Unit
1	Silicone product Market activity	ECOINVENT 3.10	3.67823119	kg
2	Aluminium, primary, ingot Ordinary transforming activity	ECOINVENT 3.10	7.605623188	kg
3	Electricity Total (Scope 2 & 3) People's Republic of China	IEA 2023	0.7231	kWh
4	Freight Boat From CN to FR	WELOW EXPERTS 1.0	0.25227278	kg
5	Waste aluminium Ordinary transforming activity Waste	ECOINVENT 3.10	0.02555404932	kg
6	polyethylene/polypropylene product Ordinary transforming activity	ECOINVENT 3.10	1.783532575	kg

02

Results

Mouse pad

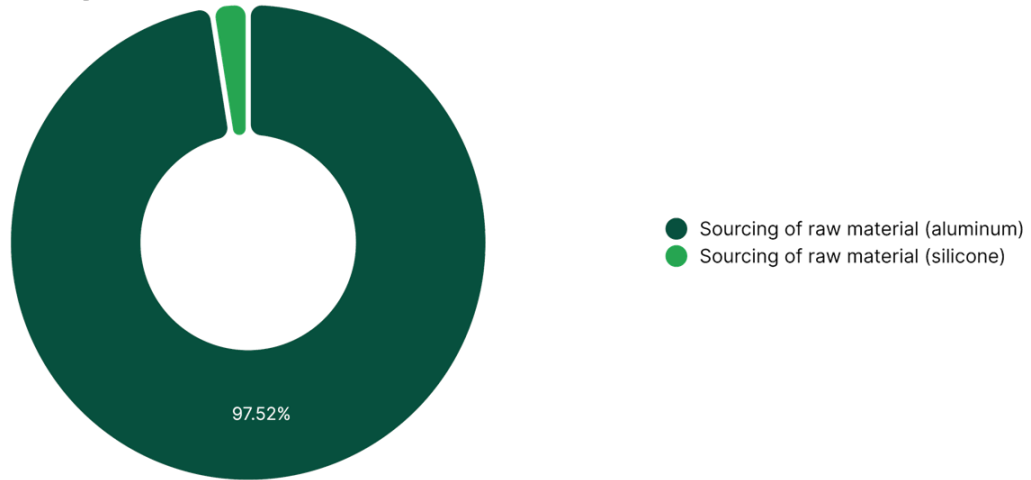
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Material Extraction and Processing	2.28	56.64 %
Manufacturing	1.64	40.82 %
Transportation and Distribution	0.07	1.75 %
End-of-Life Treatment	0.03	0.79 %
TOTAL	4.03	100.00 %

Mouse pad

Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (kg CO ₂ eq)	Percentage (%)
Sourcing of raw material (aluminum)	2	0.29	2.23	97.52 %
Sourcing of raw material (silicone)	1	0.02	0.06	2.48 %

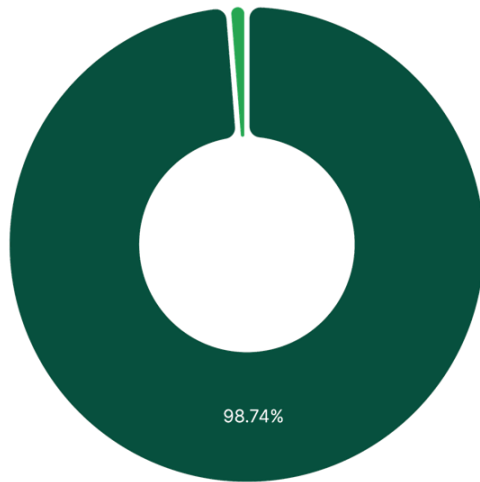
--	--	--	--	--

--	--	--	--	--

TOTAL			2.28	100.00 %
-------	--	--	------	----------

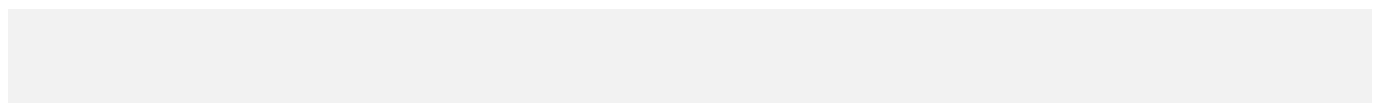
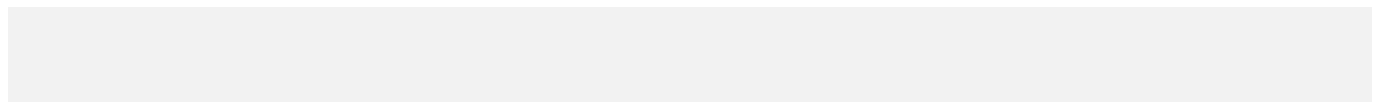
Mouse pad

Climate Change - Manufacturing



- Electricity usage during material transfo...
- Electricity usage during material transfo...

Activity	Emission Factor Num	Quantity	Impact (kg CO ₂ eq)	Percentage (%)
Electricity usage during material transformation (aluminum)	3	2.25	1.62	98.74 %
Electricity usage during material transformation (silicone)	3	0.03	0.02	1.26 %



TOTAL			1.64	100.00 %
-------	--	--	------	----------

Mouse pad

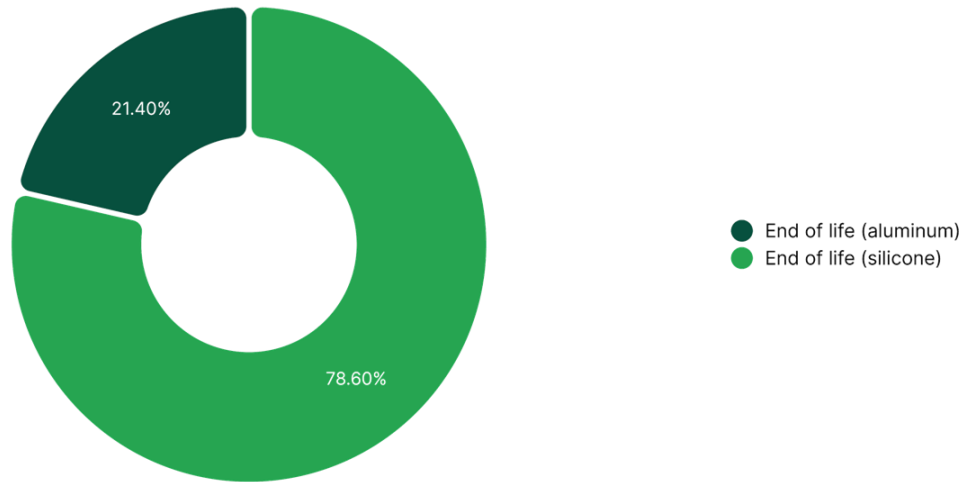
Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Freight	4	0.28	70.64	100.00 %
TOTAL			70.64	100.00 %

Mouse pad

Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
End of life (silicone)	6	0.01	24.97	78.60 %
End of life (aluminum)	5	0.27	6.8	21.40 %

--	--	--	--	--

--	--	--	--	--

TOTAL			31.77	100.00 %
-------	--	--	-------	----------

