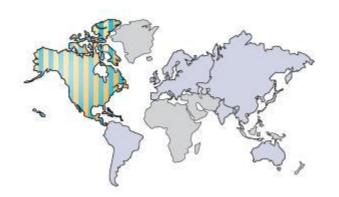
[company logo here]

[company name here] [city, state here] [company url here]





Model Name:	heater gaizi
Material:	Acrylic (Medium-high impact)
Recycled content:	0.00 %
Weight:	23.15 g
Manufacturing process:	Injection Molded
Surface Area:	16980.60 mm²
Built to last:	1.0 year
Duration of use:	1.0 year



Manufacturing Region

The choice of manufacturing region determines the energy sources and technologies used in the modeled material creation and manufacturing steps of the product's life cycle.

Use Region

The use region is used to determine the energy sources consumed during the product's use phase (if applicable) and the destination for the product at its end-of-life. Together with the manufacturing region, the use region is also used to estimate the environmental impacts associated with transporting the product from its manufacturing location to its use location.

Summary

Learn more about Life Cycle Assessment 🥹

Sustainability Report

Model Name:	heater gaizi		Material: Recycled content:	Acrylic (Medium	i-high impact)	Weight: Surface Area: Built to last: Duration of use:	23.15 g 16980.60 mm² 1.0 year 1.0 year	Manufacturing process: Injection Molded
Material			Acrylic (Medium- impact)	high	0.00 %			
Material U	Init Cost		2.80 USD/kg					
Manufact	uring				Use			
	t:	Inje 1.8E 0.00 2.0 1.0	th America ction Molded E-3 kWh/lbs) BTU/lbs % year Paint		Region: Duration of	use:	North Ame 1.0 year	erica
Transport	ation				End of Life			

Truck distance:
Train distance:
Ship distance:
Airplane Distance:

2600 km 0.00 km 0.00 km 0.00 km

Recycled:	33 %
Incinerated:	13 %
Landfill:	54 %

Comments

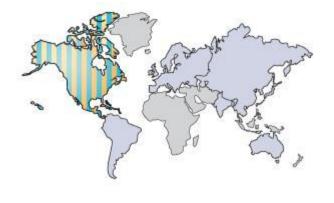




Baseline



Model Name:	heater gaizi
Material:	Polyether Polyol
Recycled content:	0.00 %
Weight:	20 g
Manufacturing process:	Injection Molded
Surface Area:	16980.60 mm²
Built to last:	1.0 year
Duration of use:	1.0 year



Manufacturing Region

The choice of manufacturing region determines the energy sources and technologies used in the modeled material creation and manufacturing steps of the product's life cycle.

Use Region

The use region is used to determine the energy sources consumed during the product's use phase (if applicable) and the destination for the product at its end-of-life. Together with the manufacturing region, the use region is also used to estimate the environmental impacts associated with transporting the product from its manufacturing location to its use location.

Comments



Learn more about Life Cycle Assessment 🥹

Sustainability Report

Model Name:	heater gaizi	Material:		Polyether Polyet	olyol	Weight: Surface Area:	20 g 16980.60 mm²	Manufacturing process: Injection Molded
BASELINE		Recycled co	ontent:	0.00 %		Built to last: Duration of use:	1.0 year 1.0 year	
Material		Polyeth	er Polyol		0.00 %			
Material U	nit Cost	Not Def	fined					
Manufactu	ıring				Use			
	t:	North Americ Injection Mol 1.8E-3 kWh/ 0.00 BTU/lbs 2.0 % 1.0 year No Paint	lded Ibs		Region: Duration of	use:	North Am 1.0 year	erica

Transportation		End of Life		
Truck distance:	2600 km	Recycled:		
Train distance:	0.00 km	Incinerated:		
Ship distance: Airplane Distance:	0.00 km 0.00 km	Landfill:		

Comments

33 % 13 % 54 %

odel Nam	-	Material: Recycled content:	Polyether Po	lyol	Weight: Surface Area: Built to last: Duration of use:	20 g 16980.60 mm ² 1.0 year 1.0 year	Manufacturing process: Injection Molded
Enviro	onmental Impact Comp	arison		New Design: Better	Worse		Original Design: ■ Baseline
Carbon Total	Footprint - Comparison Acrylic (Medium-high impact) Polyether Polyol : 0.163 kg C			Total Acr	/ Consumed - ylic (Medium-hig yether Polyol : 2.	h impact) : 1.5	
Air Acic Fotal	dification - Comparison Acrylic (Medium-high impact) Polyether Polyol : 4.5E-4 kg S			Total Acr	phication - Co ylic (Medium-hig yether Polyol : 9.	h impact) : 3.9	
	ial Financial Impact				0.06 USD Not Defined		
Click he	ere for alternative units such a	s 'Miles Driven in a Car'					S SOLIDWORK



Glossary

Air Acidification - Sulfur dioxide, nitrous oxides other acidic emissions to air cause an increase in the acidity of rainwater, which in turn acidifies lakes and soil. These acids can make the land and water toxic for plants and aquatic life. Acid rain can also slowly dissolve manmade building materials such as concrete. This impact is typically measured in units of either kg sulfur dioxide equivalent (SO₂), or moles H+ equivalent.

Carbon Footprint - Carbon-dioxide and other gasses which result from the burning of fossil fuels accumulate in the atmosphere which in turn increases the earth's average temperature. Carbon footprint acts as a proxy for the larger impact factor referred to as Global Warming Potential (GWP). Global warming is blamed for problems like loss of glaciers, extinction of species, and more extreme weather, among others.

Total Energy Consumed - A measure of the non-renewable energy sources associated with the part's lifecycle in units of megajoules (MJ). This impact includes not only the electricity or fuels used during the product's lifecycle, but also the upstream energy required to obtain and process these fuels, and the embodied energy of materials which would be released if burned. Total Energy Consumed is expressed as the net calorific value of energy demand from non-renewable resources (e.g. petroleum, natural gas, etc.). Efficiencies in energy conversion (e.g. power, heat, steam, etc.) are taken into account.

Water Eutrophication - When an over abundance of nutrients are added to a water ecosystem, eutrophication occurs. Nitrogen and phosphorous from waste water and agricultural fertilizers causes an overabundance of algae to bloom, which then depletes the water of oxygen and results in the death of both plant and animal life. This impact is typically measured in either kg **phosphate equivalent (PO4) or kg nitrogen (N) equivalent**.

Life Cycle Assessment (LCA) - This is a method to quantitatively assess the environmental impact of a product throughout its entire lifecycle, from the procurement of the raw materials, through the production, distribution, use, disposal and recycling of that product.

Material Financial Impact - This is the financial impact associated with the material only. The mass of the model is multiplied by the financial impact unit (units of currency/units of mass) to calculate the financial impact (in units of currency).

Learn more about Life Cycle Assessment 🥹



