

Acetron[®] C Sterra[™] POM-C

Polyoxymethylene

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Acetron[®] C Sterra[™] Polyoxymethylene POM-C is a general purpose, copolymer acetal grade that is often favored for its porosity free nature. Acetron[®] C Sterra[™] POM-C shapes also offer low moisture and excellent machinability capabilities, making it a very versatile material that can excel in a multitude of environments. As part of the Sterra[™] product portfolio, this material contains recycled content and exhibits a significantly lower carbon footprint compared to similar materials derived from virgin feedstocks.

Recycled Content (post-industrial material)	100%
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	Acetron [®] C Sterra [™] POM-C		Comparison with a generic material based on 100% virgin resin	
	Units	Indicative Values	Units	Indicative Values
Life Cycle Impact Assessment Results	Climate change	kg CO ₂ eq / kg product	kg CO ₂ eq / kg product	3.98
	Acidification	Mole of H ⁺ eq. / kg product	Mole of H ⁺ eq. / kg product	4.09E-03
	Ecotoxicity freshwater	CTUe / kg product	CTUe / kg product	8.88
	Particulate Matter	Disease inc. / kg product	Disease inc. / kg product	3.70E-08
	Human toxicity, non-cancer - total	CTUh / kg product	CTUh / kg product	4.78E-08
	Resource use, fossils	MJ / kg product	MJ / kg product	95.35
	Resource use, mineral and metals	kg Sb eq. / kg product	kg Sb eq. / kg product	2.18E-06
	Water use	m ³ world equiv. / kg product	m ³ world equiv. / kg product	0.48
	Environmental footprint, EF v3.0	eco points / kg product	eco points / kg product	2.67E-04
	More aggregated LCA endpoints are available on request.			

Fundamentals	Life cycle assessment was calculated according to ISO 14040/44 (ISO, 2006; ISO/TC, 2006) using a mix of primary and secondary data including the Sphera MLC database version 2022.1. The analysis was performed with Sphera LCA for Experts Software (former GaBi 10.6). The total environmental footprint was calculated with the EFv3.0 method and the carbon footprint was calculated with the IPCC 2013 method. In accordance with the life cycle assessment approach, all processes within the cradle-to-gate system boundary were considered, 1 wt. % cut-off rule and no allocation were applied. The further processing, the use phase and the end-of-life phase of the material products are excluded from the system boundary. The LCA has undergone a critical review by an independent third party according to ISO 14040/44. Value(s) indicated are global average(s) and may be based on a varying number of manufacturing locations, including single location based only.
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Miscellaneous	Mitsubishi Chemical Group's production sites for the manufacturing of this material are certified according to ISO 9001:2015 and ISO 14001:2015. Production sites are using electricity from Renewable Sources (RE).
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Product name is a registered trademark of Mitsubishi Chemical Advanced Materials

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