Ketron[®] Sterra[™] CA30 PEEK

Poly-ether-ether-ketone

mcam.com

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SSUG Date of

Ketron[®] Sterra[™] CA30 Polyetheretherketone PEEK is a 30% carbon fiber-reinforced grade that exhibits even higher stiffness, mechanical strength, and creep and wear resistance than Ketron[®] GF30 PEEK. With a significantly reduced thermal expansion, optimum load carrying capabilities, and high thermal conductivity rates, Ketron[®] Sterra[™] CA30 PEEK components are often favored for their ability to extend part life and rapidly dissipate heat in bearing applications. 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.

70%

Recycled Content (post-industrial material)

Units CO ₂ eq / kg product of H ⁺ eq. / kg product CTUe / kg product	Indicative Values 10.98 0.018 49.60		Units kg CO ₂ eq / kg product Mole of H ⁺ eq. / kg product CTUe / kg product	Indicative Values 24.75 0.059 153.47
of H ⁺ eq. / kg product CTUe / kg product	0.018		Mole of H ⁺ eq. / kg product	0.059
CTUe / kg product				
01	49.60		CTUe / kg product	153.47
and ind. (he module				
ase inc. / kg product	1.10E-07		Disease inc. / kg product	4.66E-07
CTUh / kg product	9.68E-08		CTUh / kg product	2.49E-07
MJ / kg product	176.34		MJ / kg product	460.13
Sb eq. / kg product	5.98E-06		kg Sb eq. / kg product	1.04E-05
rld equiv. / kg product	0.18		m ³ world equiv. / kg product	1.22
points / kg product	6.50E-04		eco points / kg product	1.61E-03
•	rld equiv. / kg product	rld equiv. / kg product 0.18	rld equiv. / kg product 0.18	rld equiv. / kg product 0.18 m ³ world equiv. / kg product

More aggregated LCA endpoints are available on request

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 carde-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.

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).

Product name is a registered trademark of Mitsubishi Chemical Advanced Materials

This data sheet and any data and specifications presented on our website shall provide promotional and general information about the Engineering Plastic Products (the "Products") manufactured and offered by Mitsubishi Chemical Advanced Materials and shall serve as a preliminary guide. All data and descriptions relating to the Products are of an indicative nature only. Neither this data sheet nor any data and specifications presented on our website shall create or be implied to create any legal or contractual obligation.

The LCA data contained herein are provided to Mitsubishi Chemical Advanced Materials' best knowledge and in good faith. Such data may change from one production site to another and with time. Where available, data given are based on global averages. No warranties, express or implied, are given. Any liability of Mitsubishi Chemical Advanced Materials for the merchantability, fitness for a specific purpose, accuracy or completeness of such data is explicitly excluded.

Any illustration of the possible fields of application of the Products shall merely demonstrate the potential of these Products, but any such description does not constitute any kind of covenant whatsoever. Inspective of any tests that Mitsubish Chemical Advanced Materials and practical experience, but often preliminary testing of the customer respectively. The choice of the most suitable plastics materials depends on available chemical advanced data and practical experience, but often preliminary testing of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, but often preliminary testing) of the finished plastics part under actual service conditions (right chemical, b concentration, temperature and contact time, as well as other conditions) is required to assess its final suitability for the given application.

It thus remains the customer's sole responsibility to test and assess the suitability and compatibility of Mitsubishi Chemical Advanced Materials' Products for its intended applications, processes and uses, and to choose those Products which according to its assessment meet the requirements applicable to the specific use of the finished product. The customer undertakes all liability in respect of the application, processing or use of the aforementioned information or product, or any consequence thereof, and shall verify its quality and other properties.

