## Ketron<sup>™</sup> Sterra<sup>™</sup> HPV PEEK

## Recycled poly-ether-ether-ketone



Ketron™ Sterra™ HPV PEEK shapes are carbon fiber-reinforced, with graphite and PTFE lubricants, giving them the lowest coefficient of friction and the best machinability of all PEEK materials. Due to Ketron™ Sterra™ HPV PEEK's combination of low wear, low friction and high limiting pressure velocity, this material is often chosen as a solution for high speed service bearings, bushings, insulators, valves and seals.

As part of the Sterra™ product portfolio, Ketron™ Sterra™ HPV PEEK contains recycled content and therefore is associated with a significantly lower carbon footprint compared to similar materials derived from non-recycled feedstocks.

	Recycled Content (post-industrial material) [%]	70	
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## Ketron™ Sterra™ HPV PEEK

compared to MCAM's manufactured material using 100% virgin resin

	Units	Indicative values	
Carbon footprint	kg CO2eq	9.14	

Units	Indicative values
kg CO2eq	17.16

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ENVIRONMENTAL PRODUCT DATASHEE

Life cycle assessment was calculated according to ISO 14040/44 (ISO, 2006; ISO/TC, 2006) using a mix of primary and secondary data including MLC 2023.2 (database). The total environmental footprint was calculated with the EFv3.1 method and the carbon footprint was evaluated with the IPCC 2021 method. In accordance with the life cycle assessment approach, all environmentally relevant processes within the system boundary are recorded and considered as far as possible. This LCA covers the 'cradle-to-gate' system boundary of the MCAM products. The further processing, the use phase and the end-of-life phase of the material products are excluded. 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. A mass balance method according to ISCC PLUS standards is applied; the corresponding certification process has been initiated.



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).

Ketron™ is a protected trademark of Mitsubishi Chemical Advanced Materials

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This data sheet contains indicative information for courtesy purposes only and the assessment is made cradle-to-gate. It is not intended for conducting LCA calculations. The sharing of data with third parties is only allowed if such data is accompanied by the additional information and a link to the corresponding Mitsubishi Chemical Advanced Materials' environmental data sheet. The user shall ensure that such third parties also comply with the above-mentioned requirements. A complete life cycle analysis which can be used for a qualified assessment of our customers' environmental impacts can be made available subject to a specific non-disclosure agreement.

We do not provide any warranty, in particular with regard to the accuracy, completeness, fitness for a specific purpose or merchantability. We are not liable for damages arising out of or in connection with the use of this information.

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.