

LATI LARPEEK 10 K/20 20% Carbon Fiber Reinforced Polyetheretherketone (PEEK) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Larpeek polyetheretherketone (PEEK) is a high performance thermoplastic offering cost effective performance in difficult environments across all industries. PEEK is temperature resistant (up to 250°C), offers outstanding wear performance and has a comprehensive resistance to chemicals and aggressive agents. Larpeek compounds are intrinsically flame retardant and maintain UL94 V0 rating in thin walled products without requiring any special additive. Larpeek compounds can substitute metals, ceramics, and composites in many engineering applications offering improved performance together with simplified production, reduced cost and extended reliability. Specific Notes for this Material: PEEK, 20% carbon fiber, improved fluidity, flame retardant UL94 V0, halogens and red phosphorous free Disclaimer from LATI: This document contains information based on average values as obtained from the results of laboratory tests and observations made on LATI materials. Tested materials were injection molded, used in their natural color, and conditioned in compliance with Standard ASTM D 618, procedure A. These values refer to LATI's best technical and scientific knowledge at the moment of testing and cannot be used as a basis for the development of applications. For a better assessment of the materials, you are kindly requested to contact LATI's technical or commercial offices, which are at your disposal and will supply detailed information on the most suitable characteristics for their intended use. With reference to DPR n.224 dated May 24, 1988, issued in accordance with EC Guide-lines 85/374, LATI Industria Termoplastici S.p.A. declines all responsibility arising from an improper use of the products described in this document. All data provided by LATI.

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http://www.lookpolymers.com/polymer_LATI-LARPEEK-10-K20-20-Carbon-Fiber-Reinforced-Polyetheretherketone-PEEK-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	LATI
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	LATI

Mechanical Properties	Metric	English	Comments
Flexural Modulus	15.8 GPa	2290 ksi	ASTM D790
Izod Impact, Notched	0.470 J/cm @Temperature 23.0 °C	0.881 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 300 °C	>= 572 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	365 - 385 °C	689 - 725 °F	
Mold Temperature	180 - 190 °C	356 - 374 °F	
Drying Temperature	150 - 170 °C	302 - 338 °F	Always recommended, temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Always recommended, drying time can be reduced when using vacuum ovens.

Descriptive Properties	Value	Comments
Injection Speed	medium	

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