

Gharda Chemicals G-PAEK™ 1200FCM Ultra High Performance PEK Polymer (discontinued **)

Category : Polymer , Thermoplastic , Polyketone , Polyaryletherketone (PAEK), Carbon Fiber Filled

Material Notes:

Milled carbon fiber reinforced in Poly Aryl Ether Ketone, semi-crystalline granules suitable for injection molding, easy flow, Black in color
 Application Areas: Suitable for high temperature application, where higher strength & stiffness needed in load bearing application.
 Excellent wear resistance. Typical applications include electronic chip carrier trays, conductive flooring, and parts for electronic business machines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gharda-Chemicals-G-PAEK-1200FCM-Ultra-High-Performance-PEK-Polymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	410°C nozzle, 220°C mold
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	410°C nozzle, 220°C mold

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	104	104	ASTM D785
Hardness, Shore D	87	87	
Tensile Strength, Yield	160 MPa	23200 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Tensile Modulus	16.0 GPa	2320 ksi	ASTM D638
Flexural Strength	250 MPa	36300 psi	ASTM D790
Flexural Modulus	12.9 GPa	1870 ksi	ASTM D790
Izod Impact, Notched	0.350 - 0.400 J/cm	0.656 - 0.749 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.50 J/cm	6.56 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	370 - 372 °C	698 - 702 °F	DSC
Deflection Temperature at 1.8 MPa	340 °C	644 °F	

(264 psi) Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	152 - 154 °C	306 - 309 °F	DSC/onset
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+6 ohm	1.00e+6 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	390 - 425 °C	734 - 797 °F	
Nozzle Temperature	425 °C	797 °F	
Mold Temperature	200 - 220 °C	392 - 428 °F	
Drying Temperature	150 °C	302 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

Descriptive Properties	Value	Comments
Hopper/ Throat Temperature	60-80°C	
Nominal Granule Diameter	2.0 - 3.5 mm	Granules of uniform cut and color
Nominal Granule Length	2.0 - 4.0 mm	No longs greater than 8.0 mm

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