

Gharda Chemicals G-PAEK, 1230CF Ultra High Performance PEK Polymer

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

Material Notes:

Product Details: Ultra High Performance Thermoplastic material, 30% 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. Chemically resistant to aggressive environments, suitable for sterilization for medical and food contact applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gharda-Chemicals-G-PAEK-1230CF-Ultra-High-Performance-PEK-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0011 cm/cm	0.0011 in/in	410°C nozzle, 220°C mold
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	410°C nozzle, 220°C mold
Crystallinity	40 %	40 %	DSC

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	108	108	ASTM D785
Hardness, Shore D	91	91	
Tensile Strength, Yield	75.0 MPa @Temperature 250 °C	10900 psi @Temperature 482 °F	ASTM D638
	95.0 MPa @Temperature 200 °C	13800 psi @Temperature 392 °F	ASTM D638
	125 MPa @Temperature 150 °C	18100 psi @Temperature 302 °F	ASTM D638
	185 MPa @Temperature 100 °C	26800 psi @Temperature 212 °F	ASTM D638
	250 MPa @Temperature 23.0 °C	36300 psi @Temperature 73.4 °F	ASTM D638
	260 MPa	37700 psi	

Mechanical Properties	Metric	English	ASTM D638 Comments
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
	275 MPa	39900 psi	ASTM D638
	@Temperature -50.0 Â°C	@Temperature -58.0 Â°F	
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	22.6 GPa	3280 ksi	ASTM D638
Flexural Strength	360 MPa	52200 psi	ASTM D790
Flexural Modulus	22.0 GPa	3190 ksi	ASTM D790
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	370 - 372 Â°C	698 - 702 Â°F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	368 Â°C	694 Â°F	
Glass Transition Temp, Tg	152 - 154 Â°C	306 - 309 Â°F	DSC/onset
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

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

Descriptive Properties	Value	Comments
Hopper/ Throat Temperature	60-80Â°C	

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