G-PAEK™ 1230CF

Polyether Ketone

Gharda Chemicals Ltd.

Message:

Product Details: Ultra high performance thermoplastic polymer, 30% carbon fiber reinforced in Polyether Ketone, semi-crystalline granules suitable for injection molding, easy flow, Black in color.
Application Areas: Suitable for high temperature applications, where higher strength & stiffness in load- bearing application is required. Chemically resistant to aggressive environments, suitable for sterilization for medical and food contact applications.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Food Contact Acceptable Good Chemical Resistance Good Flow High Heat Resistance High Stiffness High Strength Semi Crystalline		
Uses	High Temperature Applications Medical/Healthcare Applications Non-specific Food Applications		
Appearance	Black		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.40	g/cm³	
Molding Shrinkage [1]			
Flow	0.10	%	
Across Flow	0.60	%	
Water Absorption (Equilibrium)	0.040	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 23°C)	108		ASTM D785
Durometer Hardness (Shore D, 23°C)	91		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	28600	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	265	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0 to 3.0	%	ASTM D638
Flexural Modulus (23°C)	28.0	MPa	ASTM D790
Flexural Strength (23°C)	410	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (23°C)	65	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	355	°C	ASTM D648
Continuous Use Temperature	280	°C	UL 746B
Glass Transition Temperature	152	°C	ASTM D3418
Melting Temperature	372	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Hopper Temperature	60.0 to 80.0	°C	
Nozzle Temperature	420	°C	
Processing (Melt) Temp	390 to 420	°C	
Mold Temperature	200 to 220	°C	
NOTE			
1.	420°C nozzle, 220°C Mold		

Recommended distributors for this material

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