G-PAEK™ 1220GF

Polyether Ketone

Gharda Chemicals Ltd.

Message:

Product Details: Ultra high performance thermoplastic polymer, 20% glass fiber reinforced in Polyether Ketone, semi-crystalline granules suitable for injection molding, easy flow, Dark Beige in color and also custom colors in Blue and Black.
Application Areas: Suitable for high temperature applications, where higher strength in load-bearing applications. Chemically resistant to aggressive environments, suitable for sterilization for medical and food contact applications.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Chemical Resistance Good Flow Good Sterilizability Good Strength High Heat Resistance Semi Crystalline		
Uses	High Temperature Applications Medical/Healthcare Applications Non-specific Food Applications		
Appearance	Beige Black Blue		
Forms	Granules		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.45	g/cm³	
Molding Shrinkage [1]			
Flow	0.60	%	
Across Flow	0.90	%	
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	100		ASTM D785
Durometer Hardness (Shore D)	91		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	8500	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	130	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.8	%	ASTM D638

Flexural Modulus (23°C)	8.60	MPa	ASTM D790
Flexural Strength (23°C)	192	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Unnotched Izod Impact	680	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	280	°C	UL 746B
Glass Transition Temperature	152	°C	ASTM D3418
Melting Temperature	372	°C	ASTM D3418
Flammability	Nominal Value		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.	410°C nozzle, 220°C Mold		

Recommended distributors for this material

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