

# G-PAEK™ 1460GF

Polyether Ketone  
Gharda Chemicals Ltd.

Message:

Product Details: Ultra high performance thermoplastic polymer, 60% glass fiber reinforced in Polyether Ketone, semi-crystalline granules suitable for injection molding, easy flow, Beige in color.

Application Areas: Suitable for high temperature applications, where higher strength in load-bearing applications is required. Chemically resistant to aggressive environments, suitable for sterilization for medical and food contact applications.

General Information			
Filler / Reinforcement	Glass Fiber,60% 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		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.87	g/cm <sup>3</sup>	
Spiral Flow <sup>1</sup>	27.0	cm	ASTM D3123
Molding Shrinkage <sup>2</sup>			
Flow	0.30	%	
Across Flow	0.84	%	
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	101		ASTM D785
Durometer Hardness (Shore D)	94		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	28100	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	187	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0 to 3.0	%	ASTM D638
Flexural Modulus (23°C)	26000	MPa	ASTM D790
Flexural Strength (23°C)	212	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Unnotched Izod Impact	650	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	359	°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+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	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	430	°C	
Processing (Melt) Temp	400 to 430	°C	
Mold Temperature	200 to 220	°C	
NOTE			
1.	430°C nozzle, 220°C Mold		
2.	430°C nozzle, 220°C Mold		

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