

GAZOLE™ 6430GF

Polybenzimidazole
Gharda Chemicals Ltd.

Message:

Product Details: Ultra high performance thermoplastic polymer, 30% glass fiber reinforced in PBI PEK Blend, semi-crystalline granules suitable for injection molding as well as extrusion, easy flow, dark green in color.
Application Areas: Suitable for high temperature applications under extremely high load, Excellent wear resistance, suitable for semiconductor applications and plasma handling equipments.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Flow		
	Good Wear Resistance		
	High Heat Resistance		
	Semi Crystalline		
Uses	Electrical/Electronic Applications		
	High Temperature Applications		
Appearance	Dark Green		
Forms	Granules		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	
Molding Shrinkage ¹			
Flow	0.20	%	
Across Flow	0.58	%	
Water Absorption (Equilibrium)	0.24	%	ASTM D570
Spiral Flow ²	4.50	cm	ASTM D3123
Weight Loss on Heating			Internal Method
5% Weight Loss in Air	580	°C	
5% Weight Loss in Nitrogen	570	°C	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (A-Scale)	30		ASTM D785
Durometer Hardness (Shore D)	95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	13500	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	167	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.7	%	ASTM D638

Flexural Modulus (23°C)	13600	MPa	ASTM D790
Flexural Strength (23°C)	282	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	310	°C	ASTM D648
Continuous Use Temperature	300	°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	445	°C	
Processing (Melt) Temp	400 to 445	°C	
Mold Temperature	200 to 220	°C	
NOTE			
1.	445°C nozzle, 220°C Mold		
2.	445°C nozzle, 220°C Mold		

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