GAZOLE™ 6200G

Polybenzimidazole

Gharda Chemicals Ltd.

Message:

Product Details: Ultra high performance thermoplastic polymer, PBI Poly (2, 5 benzimidazole) blended with Polyether Ketone, semi-crystalline granules suitable for injection molding as well as extrusion, easy flow, brown in color.
Application Areas: Suitable for high temperature applications under extreme load, Excellent wear resistance, suitable for semiconductor applications and plasma handling equipments.

General Information	
Features	Good Flow Good Wear Resistance High Heat Resistance Semi Crystalline
Uses	Electrical/Electronic Applications High Temperature Applications
Appearance	Brown
Forms	Granules
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm³	
Molding Shrinkage [1]			
Flow	0.50	%	
Across Flow	0.70	%	
Water Absorption (Equilibrium)	0.27	%	ASTM D570
Spiral Flow [2]	3.30	cm	ASTM D3123
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	89		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	5600	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	90.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0	%	ASTM D638
Flexural Modulus (23°C)	6100	MPa	ASTM D790
Flexural Strength (23°C)	150	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	35	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (1.8 MPa, Unannealed)	174	°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
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (430°C, 1000 sec^-1)	390	Pa·s	ASTM D3835
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	440	°C	
Processing (Melt) Temp	400 to 440	°C	
Mold Temperature	200 to 220	°C	
NOTE			
1.	440°C nozzle, 220°C Mold		
2.	440°C nozzle, 220°C Mold		

Recommended distributors for this material

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