

GAZOLE™ 5200P

Polybenzimidazole
Gharda Chemicals Ltd.

Message:

Product Details: Ultra High performance thermoplastic polymer, unreinforced PBI Poly (2, 5 benzimidazole), semi crystalline, fine powder for compression molding, standard particle size distribution, color natural brown.

General Information			
Features	Semi Crystalline		
Appearance	Brown		
Forms	Powder		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ASTM D1895B
Apparent Density	0.15	g/cm ³	
Moisture Content - GSRF	2.0 to 3.0	%	
Particle Size Distribution - D(100)	< 130.0	µm	Internal Method
Weight Loss on Heating			
5% Weight Loss in Air	570	°C	
5% Weight Loss in Nitrogen	520	°C	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	125		ASTM D785
Durometer Hardness (Shore D)	95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5900	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	160	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.0	%	ASTM D638
Flexural Modulus (23°C)	6500	MPa	ASTM D790
Flexural Strength (23°C)	220	MPa	ASTM D790
Compressive Modulus	5900	MPa	ASTM D695
Compressive Strength	390	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Unnotched Izod Impact (23°C)	600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	440	°C	ASTM D648
Continuous Use Temperature	400	°C	UL 746B
Glass Transition Temperature	467	°C	Internal Method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257

Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (3.20 mm)	23	kV/mm	ASTM D149
Arc Resistance ¹	185	sec	ASTM D495
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	
NOTE			
1.	@500 Volts		

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