

G-PAEK™ 1100ESG

Polyether Ketone
Gharda Chemicals Ltd.

Message:

Product Details: Ultra high Performance thermoplastic polymer, virgin, semicrystalline granules suitable for stock shapes extrusion, easy flow, Beige in color.

Application Areas: Suitable for high temperature applications, high wear & abrasion resistance, and high chemical resistance is required & for metal replacement with plastics etc.

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Flow		
	Good Wear Resistance		
	High Heat Resistance		
	Semi Crystalline		
Uses	High Temperature Applications		
	Metal Replacement		
Appearance	Beige		
Forms	Granules		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	
Molding Shrinkage ¹			
Flow	1.0	%	
Across Flow	1.3	%	
Water Absorption (Equilibrium)	0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ASTM D785
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4200	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	110	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	20 to 25	%	ASTM D638
Flexural Modulus (23°C)	4100	MPa	ASTM D790
Flexural Strength (23°C)	185	MPa	ASTM D790
Compressive Strength	135	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	60	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	175	°C	ASTM D648
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
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (400°C, 1000 sec ⁻¹)	300 to 350	Pa·s	ASTM D3835
Extrusion	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Hopper Temperature	60.0 to 80.0	°C	
Adapter Temperature	400	°C	
Melt Temperature	390 to 400	°C	
NOTE			

1. 400°C nozzle, 210°C Mold

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