

G-PAEK™ 1120FEP

Polyether Ketone
Gharda Chemicals Ltd.

Message:

Product Details: Ultra High Performance Thermoplastic polymer, 20% PTFE blended in Polyether Ketone, semi-crystalline fine powder suitable for compression molding, milky white in color.
Application Areas: Suitable for high temperature applications, where higher strength & less coefficient of Friction in load-bearing applications. e.g. Valve Seat & Mechanical Seal is required. Chemically resistant to aggressive environments, suitable for valve sheet application in ball valves.

General Information			
Filler / Reinforcement	PTFE Micropowder,20% Filler by Weight		
Features	Good Chemical Resistance		
	Good Strength		
	High Heat Resistance		
	Semi Crystalline		
Uses	High Temperature Applications		
	Valves/Valve Parts		
Appearance	White		
Forms	Powder		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Apparent Density	0.30	g/cm³	ASTM D1895B
Particle Size Distribution			
D(.99)	< 100.0	µm	
D(50)	< 10.0	µm	
Thermal	Nominal Value	Unit	Test Method
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

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