## G-PAEK™ 1120FEP

**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.

## **Typical Properties:**

PROPERTY	TEST METHOD/CONDITIONS	UNIT	G-PAEK™ 1120FEP
General Properties			
Bulk Density	ASTM D 1895B	g/cc	0.3

Particle Size Distribution
D(50)<10 micron & D(0.99) <100 micron

Thermal Properties			
Glass Transition Temperature(Tg)	ASTM D 3418	°C	152
Melting Point (Tm)	ASTM D 3418	°C	372
Continuous Use Temperature (Expected)	UL 746B	°C	280

Rheological Properties			
Melt Viscosity at 400°C	ASTM D 3835/@1000 s <sup>-1</sup>	Pa.s	300-350

Fire Properties		
Flammability	UL 94/0.8 mm	V-0

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