

## Gharda Chemicals GATONE™ 5630FC Polyetheretherketone (PEEK) (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

### Material Notes:

Characteristics: Outstanding Chemical Resistance Outstanding Wear Resistance Outstanding Resistance to Hydrolysis Excellent Mechanical Properties Outstanding Thermal properties Very good Dielectric Strength, Volume Resistivity, Tracking Resistance Excellent Radiation Resistance Applications: Medical appliances including implantation Aerospace application Engineering applications like compressor plates, valve seats, moving parts for textile machines Electrical and communication cables Scientific laboratory instruments Information provided by Gharda Chemicals Solvay Advanced Polymers completed its acquisition of this product line in May 2006.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Gharda-Chemicals-GATONE-5630FC-Polyetheretherketone-PEEK-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Gharda-Chemicals-GATONE-5630FC-Polyetheretherketone-PEEK-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	24 Hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength, Yield	140 MPa	20300 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	210 MPa	30500 psi	ASTM D790
Flexural Modulus	11.1 GPa	1610 ksi	ASTM D790
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	11.4 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	6.33 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	ASTM D696
Maximum Service Temperature, Air	260 °C	500 °F	Continuous Use; UL-746B
Deflection Temperature at 1.8 MPa (264 psi)	315 °C	599 °F	ASTM D648
Glass Transition Temp, Tg	148 °C	298 °F	ASTM D3482
Flammability, UL94	V-0	V-0	UL 94

Thermal Properties	@Thickness 0.800 mm Metric	@Thickness 0.0315 in English	Comments
Oxygen Index	30 %	30 %	ASTM D2863

## Contact Songhan Plastic Technology Co.,Ltd.

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