

## Gharda Chemicals GATONE™ 5300PF Polyetheretherketone (PEEK) (discontinued \*\*)

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

### 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-5300PF-Polyetheretherketone-PEEK-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Gharda-Chemicals-GATONE-5300PF-Polyetheretherketone-PEEK-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Volatiles	0.50 %	0.50 %	by TGA
Viscosity Test	0.90 cm <sup>3</sup> /g	0.90 cm <sup>3</sup> /g	Inherent, 0.5% solution in 98%H <sub>2</sub> SO <sub>4</sub> ; ASTM D2857

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ASTM D638
Elongation at Break	>= 50 %	>= 50 %	ASTM D638
Tensile Modulus	3.50 GPa	508 ksi	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	3.50 GPa	508 ksi	ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	340 °C	644 °F	DSC
Glass Transition Temp, Tg	145 °C	293 °F	DSC

Processing Properties	Metric	English	Comments
Moisture Content	0.20 %	0.20 %	P/QA/II/043

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