

Gharda Chemicals GATONE™ 5700 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-5700-Polyetheretherketone-PEEK-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	24 Hours; ASTM D570
Melt Flow	45.5 - 91 g/10 min @Load 5.00 kg, Temperature 380 °C	45.5 - 91 g/10 min @Load 11.0 lb, Temperature 716 °F	6"; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	100	100	ASTM D785
Tensile Strength, Yield	91.0 MPa	13200 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Tensile Modulus	3.80 GPa	551 ksi	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	3.60 GPa	522 ksi	ASTM D790
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C @Temperature 20.0 °C	25.0 µin/in-°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)	140 °C	284 °F	ASTM D648

Class Transition Temp, Tg Thermal Properties	148 °C Metric	298 °F English	ASTM D3482 Comments
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	UL 94
Oxygen Index	40 %	40 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ASTM D257
Dielectric Constant	2.8 @Frequency 60 Hz	2.8 @Frequency 60 Hz	ASTM D150
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
Dissipation Factor	0.0030 @Frequency 60 Hz	0.0030 @Frequency 60 Hz	ASTM D150
Comparative Tracking Index	150 V	150 V	ASTM D3638

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