Gharda Chemicals GATONE™ 5630CF Polyetheretherketone (PEEK) (discontinued **)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Characteristics: Outstanding Chemical Resistance Outstanding Wear Resistance Outstanding Resistance to HydrolysisExcellent Mechanical Properties Outstanding Thermal properties Very good Dielectric Strength, Volume Resistivity, Tracking Resistance Excellent Radiation Resistance Applications:Medical appliances including implantationAerospace applicationEngineering applications like compressor plates, valve seats, moving parts for textile machines Electrical and communication cables Scientific laboratory instruments Information provided by Gharda ChemicalsSolvay 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-5630CF-Polyetheretherketone-PEEK-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Filler Content	30 %	30 %	
Water Absorption	0.080 %	0.080 %	24 Hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	105	105	ASTM D785
Tensile Strength, Yield	220 MPa	31900 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Tensile Modulus	22.0 GPa	3190 ksi	ASTM D638
Flexural Strength	350 MPa	50800 psi	ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	31.6 µm/m-°C @Temperature 20.0 °C	17.6 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)	315 °C	599 °F	ASTM D648
Glass Transition Temp, Tg	148 °C	298 °F	ASTM D3482

Thermal Properties	Metric	English	Comments
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	45 %	45 %	ASTM D2863

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