

Gharda Chemicals GATONE™ 5630GF 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 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-5630GF-Polyetheretherketone-PEEK-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 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	102	102	ASTM D785
Tensile Strength, Yield	160 MPa	23200 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	260 MPa	37700 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	13.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.22 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
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	V-0 Metric	V-0 English	Comments
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	45 %	45 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	ASTM D257
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	ASTM D257
Dielectric Constant	2.9	2.9	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.0030	0.0030	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Comparative Tracking Index	150 V	150 V	ASTM D3638

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