

Gharda Chemicals GAFONE™ 3420GF PES, Glass Fiber-Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 20%Glass Fiber Filled

Material Notes:

Glass fiber reinforced granules for injection molding. With lower viscosity for molding intricate cross sections. Characteristics: Very high rigidity Good dielectric properties High mechanical strength Good dimensional stability Good resistance to hydrolysis and sterilization Good oxidative stability Inherent flame retardance Applications: Reusable hypodermic syringes Surgical instruments and components Printed circuit boards Circuit breaker components Oil level indicators Heat exchanger parts Engine components Household appliances Filter housings Sanitary and pipe fittings Information provided by Gharda. 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-GAFONE-3420GF-PES-Glass-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ISO 1183
Filler Content	20 %	20 %	
Moisture Absorption at Equilibrium	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527
Flexural Strength	175 MPa	25400 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180/1A

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	185 °C	365 °F	Continuous use
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75
Glass Transition Temp, Tg	225 °C	437 °F	DSC
Flammability, UL94	V-0	V-0	

<small>Oxygen Index</small> Thermal Properties	41 % Metric	41 % English	ISO 4589 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	IEC 93
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	IEC 93
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 243/1
Arc Resistance	80 sec	80 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	IEC 112

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