

Gharda Chemicals Gafone S 1320GF Polysulfone (PS) (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Characteristics: High Temperature Resistance - Tg 189°C Excellent Clarity Excellent Mechanical & Electrical properties Easy to process Very good Hydrolytic Resistance Applications: Electrical & Electronic - Head lamp reflectors, Chip tray carriers, battery cases Industrial - Milking machine parts, Safety belts Medical - Surgical tools, Dialysis membranes Membrane applications 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-Gafone-S-1320GF-Polysulfone-PS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Filler Content	20 %	20 %	
Water Absorption	0.50 %	0.50 %	24 Hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Tensile Modulus	6.50 GPa	943 ksi	ASTM D638
Flexural Strength	148 MPa	21500 psi	ASTM D790
Flexural Modulus	6.50 GPa	943 ksi	ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	165 °C	329 °F	Continuous Use; UL -746B
Deflection Temperature at 1.8 MPa (264 psi)	183 °C	361 °F	ASTM D648
Glass Transition Temp, Tg	187 °C	369 °F	ASTM D3482
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94
Oxygen Index	35 %	35 %	ASTM D2863

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	$\geq 1.00\text{e}+16$ ohm-cm Metric	$\geq 1.00\text{e}+16$ ohm-cm English	ASTM D257 Comments
Surface Resistance	$\geq 1.00\text{e}+14$ ohm	$\geq 1.00\text{e}+14$ ohm	ASTM D257
Dielectric Constant	2.8	2.8	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
Dissipation Factor	0.0030	0.0030	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	60 sec	60 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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