

Gharda Chemicals Gafone S 1500 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-1500-Polysulfone-PS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	24 Hours; ASTM D570
Melt Flow	38.44 - 49.6 g/10 min @Load 5.00 kg, Temperature 345 °C	38.44 - 49.6 g/10 min @Load 11.0 lb, Temperature 653 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.0 MPa	10900 psi	ASTM D638
Elongation at Break	50 - 100 %	50 - 100 %	ASTM D638
Tensile Modulus	2.70 GPa	392 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.3 µm/m-°C @Temperature 20.0 °C	22.4 µin/in-°F @Temperature 68.0 °F	ASTM D696
Maximum Service Temperature, Air	160 °C	320 °F	Continuous Use; UL -746B
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ASTM D648
Glass Transition Temp, Tg	187 °C	369 °F	ASTM D3482
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	UL 94

Thermal 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	2.8 @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
Arc Resistance	40 sec	40 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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