

Gharda Chemicals Gafone S S1430SP60 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-S1430SP60-Polysulfone-PS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Filler Content	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	110 MPa	16000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	165 MPa	23900 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	13.1 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.28 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	160 °C	320 °F	Continuous Use; UL-746B
Deflection Temperature at 1.8 MPa (264 psi)	167 °C	333 °F	ASTM D648
Glass Transition Temp, Tg	187 °C	369 °F	ASTM D3482
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	Confirms; IEC 695

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 Strength	19.0 kV/mm	483 kV/in	ASTM D149
Arc Resistance	40 sec	40 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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