

Gharda Chemicals Gafone™ B2300 Polysupersulfone (PSS) (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Characteristics: Excellent Dimensional properties Transparent Improved Impact Strength and Toughness as compared to PES Excellent Hydorlytic Stability High Stress Cracking Resistance Good Chemical Resistance Good Surface Release properties Tg of 224°C Expected Continuous Temperature of 180°C Applications: Food Contact Medical Electrical and Electronics Auto 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-B2300-Polysupersulfone-PSS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Water Absorption	0.53 %	0.53 %	24 Hours; ASTM D570
Melt Flow	13.4 - 26.8 g/10 min @Load 2.16 kg, Temperature 380 °C	13.4 - 26.8 g/10 min @Load 4.76 lb, Temperature 716 °F	6"; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	2.70 GPa	392 ksi	ASTM D638
Flexural Strength	120 MPa	17400 psi	ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	51.0 µm/m-°C @Temperature 20.0 °C	28.3 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	198 °C	388 °F	ASTM D648
Glass Transition Temp, Tg	225 °C	437 °F	ASTM D3482
Flammability, UL94	V-0 @Thickness 0.900 mm	V-0 @Thickness 0.0354 in	UL 94
Oxygen Index	39 %	39 %	ASTM D2863

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	ASTM D257
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ ohm	ASTM D257
Dielectric Constant	3.5	3.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	ASTM D149
Dissipation Factor	0.010	0.010	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	50 sec	50 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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