

Gharda Chemicals Gafone™ B2315GF 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 Hydrolytic 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-B2315GF-Polysupersulfone-PSS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Filler Content	15 %	15 %	
Water Absorption	0.51 %	0.51 %	24 Hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	113 MPa	16400 psi	ASTM D638
Elongation at Break	3.4 %	3.4 %	ASTM D638
Tensile Modulus	5.70 GPa	827 ksi	ASTM D638
Flexural Strength	162 MPa	23500 psi	ASTM D790
Flexural Modulus	4.60 GPa	667 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ASTM D648
Glass Transition Temp, Tg	225 °C	437 °F	ASTM D3482
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94
Oxygen Index	39 %	39 %	ASTM D2863

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 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
Dissipation Factor	0.010 @Frequency 1e+6 Hz	0.010 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	50 sec	50 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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