

Gharda Chemicals Gafone™ T6300 Polysupersulfone (PSS) (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Characteristics: Excellent Dimensional Properties Transparent High Mechanical Properties Good Electrical Properties High Tg of 270°C and expected Continuous Use Temperature of 220°C Applications: Electrical Switches High Temperature Resistant Covers Electronic Applications Information provided by Gharda ChemicalsSolvay 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-T6300-Polysupersulfone-PSS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Water Absorption	0.60 %	0.60 %	24 Hours; ASTM D570
Melt Flow	18.76 g/10 min @Load 10.0 kg, Temperature 380 °C	18.76 g/10 min @Load 22.0 lb, Temperature 716 °F	6"; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	92.0 MPa	13300 psi	ASTM D638
Elongation at Break	>= 10 %	>= 10 %	ASTM D638
Tensile Modulus	2.60 GPa	377 ksi	ASTM D638
Flexural Strength	121 MPa	17500 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 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)	230 °C	446 °F	ASTM D648
Glass Transition Temp, Tg	266 °C	511 °F	ASTM D3482
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94
Oxygen Index	40 %	40 %	ASTM D2863

Optical Properties	Metric	English	Comments
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Transmission Visible Optical Properties	90 % Metric	90 % English	transparent; thickness not quantified Comments
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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	3.1	3.1	ASTM D150
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	12.4 kV/mm	315 kV/in	ASTM D149
Dissipation Factor	0.0040	0.0040	ASTM D150
	@Frequency 50 Hz	@Frequency 50 Hz	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China