

Gharda Chemicals Gafone™ 3100 Polyethersulfone (PES) (discontinued **)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Characteristics: Excellent Thermal Resistance - Tg 224°C Outstanding Mechanical, Electrical, Flame & Chemical Resistance Very good Hydrolytic & Sterilization Resistance Good Optical Clarity Processed by all Conventional Techniques Applications: Clear applications like baby bottle, snuffer buttons, tee lights etc. Membrane applications Industrial and domestic coating Medical - Sterilizable box, surgical instrument Automotive - engine components Household - microwave oven food trays Industrial - oil level indicator, high temp. lighting fixture, Heat exchanger parts Electrical - Printed circuit board 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-3100-Polyethersulfone-PES-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Water Absorption	0.56 %	0.56 %	24 Hours; ASTM D570
Melt Flow	10 - 13 g/10 min @Load 2.16 kg, Temperature 380 °C	10 - 13 g/10 min @Load 4.76 lb, Temperature 716 °F	6"; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	91.0 MPa	13200 psi	ASTM D638
Elongation at Break	>= 50 %	>= 50 %	ASTM D638
Tensile Modulus	2.60 GPa	377 ksi	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	57.0 µm/m-°C @Temperature 20.0 °C	31.7 µin/in-°F @Temperature 68.0 °F	ASTM D696
Maximum Service Temperature, Air	180 °C	356 °F	Continuous Use; UL -746B
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ASTM D648
Glass Transition Temp, Tg	225 °C	437 °F	ASTM D3482

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	40 %	40 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+16$ ohm-cm	$\geq 1.00\text{e}+16$ ohm-cm	ASTM D257
Surface Resistance	$\geq 1.00\text{e}+14$ ohm	$\geq 1.00\text{e}+14$ ohm	ASTM D257
Dielectric Constant	3.2	3.2	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	ASTM D149
Dissipation Factor	0.0040	0.0040	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	50 sec	50 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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