

Glastic Laminates/Shapes SG-200 High Strength/High Temperature Polyester Laminate

Category : Polymer , Thermoset , Composite SMC , Polyester, TS

Material Notes:

Data provided by Glastic Corporation.NEMA GPO-1. A superior replacement for epoxy-bonded mica in layer insulation applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-LaminatesShapes-SG-200-High-StrengthHigh-Temperature-Polyester-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	86.0 MPa	12500 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Yield Strength	200 MPa	29000 psi	ASTM D790
Compressive Yield Strength	248 MPa	36000 psi	ASTM D695
Shear Strength	77.0 MPa	11200 psi	ASTM D732
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m/m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	11.1 $\mu\text{in/in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM C177
Maximum Service Temperature, Air	200 $^\circ\text{C}$	392 $^\circ\text{F}$	NEMA temperature
UL RTI, Electrical	210 $^\circ\text{C}$	410 $^\circ\text{F}$	UL 746B
UL RTI, Mechanical with Impact	210 $^\circ\text{C}$	410 $^\circ\text{F}$	UL 746B
Flammability, UL94	HB	HB	
Oxygen Index	21.8 %	21.8 %	ASTM D2862

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	1.45e+14 ohm Metric	1.45e+14 ohm English	Insulation Resistance, ASTM D257 Comments
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.6	4.6	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	Perpendicular, Short-term, in air; ASTM D149
Dissipation Factor	0.013	0.013	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.037	0.037	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	180 sec	180 sec	Post-cured, ASTM D495
Comparative Tracking Index	>= 500 V	>= 500 V	UL746A
Hot Wire Ignition, HWI	39 sec	39 sec	0.058 in, UL746A
High Amp Arc Ignition, HAI	200 arcs	200 arcs	UL746A
High Voltage Arc-Tracking Rate, HVTR	0.000 mm/min	0.000 in/min	UL746A

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