

Glastic Laminates/Shapes 1580 Polyester Laminate

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

Material Notes:

Data provided by Glastic Corporation.NEMA GPO-3. Developed to meet the television industry's safety assurance requirements.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-LaminatesShapes-1580-Polyester-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.83 g/cc	0.0661 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	170 MPa	24700 psi	ASTM D790
Compressive Strength	215 MPa	31200 psi	ASTM D695
Shear Strength	83.0 MPa	12000 psi	ASTM D732
Izod Impact, Notched	4.80 J/cm	8.99 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	11.1 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	ASTM C177
Maximum Service Temperature, Air	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	NEMA temperature
UL RTI, Electrical	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	UL 746B
UL RTI, Mechanical with Impact	140 $\text{Å}^\circ\text{C}$	284 $\text{Å}^\circ\text{F}$	UL 746B
Flammability, UL94	V-0	V-0	
Oxygen Index	39 %	39 %	ASTM D2862

Electrical Properties	Metric	English	Comments
Surface Resistance	8.23e+14 ohm	8.23e+14 ohm	Insulation Resistance, ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant			ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.2	4.2	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	Perpendicular, Short-term, in air; ASTM D149
Dissipation Factor	0.010	0.010	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.011	0.011	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	181 sec	181 sec	ASTM D495
Comparative Tracking Index	>= 500 V	>= 500 V	UL746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	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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