

Glastic Laminates/Shapes UTR Glass-Mat-Reinforced, Mineral Filled Polyester Laminate

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS

Material Notes:

Data provided by Glastic Corporation.NEMA GPO-3/GPO-3P. Developed for transit industry where smoke generation and toxicity are of primary concern.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-LaminatesShapes-UTR-Glass-Mat-Reinforced-Mineral-Filled-Polyester-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.81 g/cc	0.0654 lb/in ³	ASTM D792
Water Absorption	0.40 %	0.40 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	54.0 MPa	7830 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Compressive Strength	228 MPa	33100 psi	ASTM D695
Shear Strength	80.0 MPa	11600 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 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ASTM C177
Maximum Service Temperature, Air	155 $\text{Å}^\circ\text{C}$	311 $\text{Å}^\circ\text{F}$	NEMA temperature
UL RTI, Electrical	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	UL 746B
UL RTI, Mechanical with Impact	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	UL 746B
Flammability, UL94	V-0 @Thickness ≥ 0.800 mm	V-0 @Thickness ≥ 0.0315 in	UL94
Oxygen Index	35 %	35 %	ASTM D2862

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	3.10e+12 ohm	3.10e+12 ohm	Insulation Resistance, ASTM D257
Dielectric Constant	4.1	4.1	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	4.1	4.1	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	18.0 kV/mm	457 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	
Arc Resistance	0.013	0.013	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	>= 500 V	>= 500 V	UL746A
High Voltage Arc-Tracking Rate, HVTR	0.000 mm/min	0.000 in/min	UL746A

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