

Glastic Laminates/Shapes FHT Flexible High Temperature Polyester Laminate

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

Material Notes:

Data provided by Glastic Corporation. Excellent flexibility plus good electrical strength retention values after long term heat aging. Widely used in motors and dry type transformers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-LaminatesShapes-FHT-Flexible-High-Temperature-Polyester-Laminate.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Water Absorption	1.1 %	1.1 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	72.0 MPa	10400 psi	ASTM D638
Compressive Strength	97.0 MPa	14100 psi	ASTM D695
Izod Impact, Notched	5.30 J/cm	9.93 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	200 Â°C	392 Â°F	0.058 in, UL746B
UL RTI, Mechanical with Impact	200 Â°C	392 Â°F	0.058 in, UL746B
Flammability, UL94	HB	HB	
Oxygen Index	21.8 %	21.8 %	ASTM D2862

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.2	4.2	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Constant	6.4	6.4	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	Perpendicular, Short-term, in air; ASTM D149
Dissipation Factor	0.033	0.033	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.070	0.070	ASTM D150

Electrical Properties	@Frequency 60 Hz Metric	@Frequency 60 Hz English	Comments
Arc Resistance	139 sec	139 sec	ASTM D495
Comparative Tracking Index	>= 500 V	>= 500 V	UL746A
Hot Wire Ignition, HWI	102 sec	102 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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