

Glastic® FHT

Thermoset Polyester

Glastic Corporation

Message:

Glastic® Grade FHT (Flexible High Temperature) Laminate provides numerous high-performance features and benefits, such as high flexibility and excellent dielectric strength at elevated temperatures. It also exhibits the highest UL temperature index in the industry for a flexible glass-reinforced polyester in 1/32 inch and 1/16 inch thicknesses: 190°C and 200°C respectively (for both electrical and mechanical properties).
Part Number: 1800

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Low smoke		
	Low toxicity		
	High strength		
	Insulation		
	Anti-arc		
	Good flexibility		
	Track Resistance		
	Heat resistance, high		
	Flame retardancy		
UL File Number	E81928		
Appearance	Cream		
	Natural color		
	brownish yellow		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Water Absorption (24 hr)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (1.60 mm)	72.4	MPa	ASTM D638
Compressive Strength (1.60 mm)	96.5	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (1.60 mm)	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
RTI Elec			UL 746
0.711 mm	190	°C	UL 746
1.47 mm	200	°C	UL 746
RTI			UL 746
0.711 mm	190	°C	UL 746

1.47 mm	200	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			ASTM D149
1.60 mm, Perpendicular S/T in Air	18	kV/mm	ASTM D149
1.60 mm, Perpendicular S/T in Oil	22	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1.60 mm, 60 Hz	6.40		ASTM D150
1.60 mm, 1 MHz	4.20		ASTM D150
Dissipation Factor			ASTM D150
1.60 mm, 60 Hz	0.070		ASTM D150
1.60 mm, 1 MHz	0.033		ASTM D150
Arc Resistance (1.60 mm)	139	sec	ASTM D495
Comparative Tracking Index (CTI) (1.60 mm)	500	V	UL 746
High Amp Arc Ignition (HAI) (1.60 mm)	200		UL 746
High Voltage Arc Tracking Rate (HVTR) (1.60 mm)	0.00	mm/min	UL 746
Hot-wire Ignition (HWI)			UL 746
0.711 mm	49	sec	UL 746
1.47 mm	100	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Oxygen Index (1.60 mm)	22	%	ASTM D2863
Additional Information			

Dielectric Strength, Parallel S/S in Oil, 0.063 in: 60 kV

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