

Glastic® 1580

Thermoset Polyester

Glastic Corporation

Message:

Glastic 1580 is an easily fabricated laminate that exhibits excellent flame resistance. This flame-resistant laminate meets the UL94 V0 specification of Underwriters Laboratories. This material was originally designed to meet the television industry's safety assurance requirements. Glastic 1580 has exceptional flame resistance, arc resistance and a high temperature capability for applications such as flyback transformers and arc stack assemblies.

General Information			
Features	Anti-arc		
	Track Resistance		
	Flame retardancy		
Uses	Laminate		
UL File Number	E81928		
Appearance	White		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (yield, 1.60mm)	57.9	MPa	ASTM D638
Flexural Strength (yield, 1.60mm)	170	MPa	ASTM D790
Compressive Strength (1.60 mm)	215	MPa	ASTM D695
Shear Strength	82.7	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (1.60 mm)	480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (1.60 mm)	2.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.27	W/m/K	ASTM C177
RTI Elec (1.60 mm)	120	°C	UL 746
RTI (1.60 mm)	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
1.60 mm, in Air	17	kV/mm	ASTM D149
1.60 mm, in Oil	23	kV/mm	ASTM D149
Dissipation Factor			ASTM D150
1.60 mm, 60 Hz	0.011		ASTM D150
1.60 mm, 1 MHz	0.010		ASTM D150

Arc Resistance (1.60 mm)	181	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
Hot-wire Ignition (HWI) (1.60 mm)	300	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Oxygen Index (1.60 mm)	39	%	ASTM D2863
Additional Information			
NEMA Grade: GPO-3Insulation Resistance, ASTM D257: 8.23e10 ohmsIgnition Time: 84 minBurn Time: 23 min			
NOTE			

1.
- Method A (short time)

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