

# Glastic® TSF 1312

Thermoset Polyester

Glastic Corporation

## Message:

Glastic TSF 1312 general-purpose laminate is the most cost-effective fiberglass-reinforced laminate sheet available from Glastic. This resin exhibits outstanding punchability in thin thicknesses. It is widely used in motors and dry-type transformers, as well as a variety of other applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	General		
Uses	Laminate		
	Sheet		
	General		
UL File Number	E23525		
Appearance	Brown		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (yield, 1.60mm)	64.8	MPa	ASTM D638
Flexural Strength (yield, 1.60mm)	154	MPa	ASTM D790
Compressive Strength (1.60 mm)	268	MPa	ASTM D695
Shear Strength	92.4	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (1.60 mm)	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (1.60 mm)	2.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.26	W/m/K	ASTM C177
RTI Elec (1.60 mm)	130	°C	UL 746
RTI (1.60 mm)	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>			ASTM D149
1.60 mm, in Air	16	kV/mm	ASTM D149
1.60 mm, in Oil	19	kV/mm	ASTM D149
Dissipation Factor (1.60 mm, 60 Hz)	9.5E-3		ASTM D150
Arc Resistance (1.60 mm)	127	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94

Oxygen Index (1.60 mm)	22	%	ASTM D2863
Additional Information			
NEMA Grade: GPO-1/GPO-1PIInsulation Resistance, ASTM D257: 2.4e12 ohms			
NOTE			
1.	Method A (short time)		

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#### Recommended distributors for this material

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