Grade TSF 1312

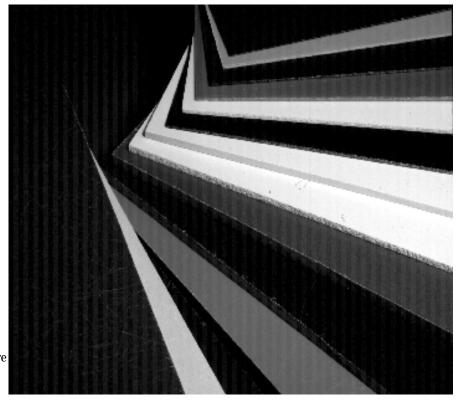
General-Purpose Laminate

- NEMA GPO-1
- Extremely Cost-Effective
- Outstanding Punchability
- Ideal For A Variety Of Applications
- UL Recognized
- Easily Fabricated
- Asbestos-Free

Grade TSF 1312 General-Purpose Laminate is the most cost-effective fiberglass-reinforced laminate sheet available from Glastic*. It is also a NEMA GPO-1 Laminate and UL Recognized.

Glastic Grade TSF 1312 is a UL Recognized material with a temperature index of 130° C Electrical and 130° C Mechanical. It is available in the brown, and in thicknesses of 1/32 of an inch through 1-1/4 inches.

Grade TSF 1312 exhibits outstanding punchability in thin thicknesses. It is widely used in motors and dry-type transformers, as well as a variety of other applications.



Grade TSF 1312

General-Purpose Laminate

GLASTIC LAMINATES PROPERTY TABLE

TYPICAL AVERAGE VALUES¹

GENERAL INFORMATION	UNIT	ASTM/UL Number	GLASTIC Grade TSF
Part Number			1312
Color, Standard			Brown
MECHANICAL PROPERTIES —			
NEMA Grade	_	_	GP0-1/GP0-1P
Tensile Strength	Psi	D638	9,400
Tensile Modulus	Psi x 10 ⁶	D638	1.7
Flexural Strength	Psi	D790	22,300
Flexural Strength - 130° C	Psi	D790	15,400
Compressive Strength	Psi	D695	38,900
Shear Strength	Psi	D732	13,400
IZOD Impact Strength (notched)	ft.lb./in.	D256	8.0
Water Absorption	% by wt.	D570	0.3
Specific Gravity	_	D792	1.78
ELECTRICAL PROPERTIES			
Electrical Strength - Perpendicular S/T in air	Vpm	D149	417
Electrical Strength - Perpendicular S/T in oil	Vpm	D149	493
Electrical Strength - Parallel S/S in oil	kV	D149	44
Arc Resistance	Sec.	D495	127
Permittivity, 60 Hz	_	D150	4.2
Dissipation Factor, 60 Hz	_	D150	0.0095
Permittivity, MHz	_	D150	4.2
Dissipation Factor, MHz	_	D150	4.2
Insulation Resistance	Ohm x 10 ¹²	D257	2.4
FLAME-RESISTANCE PROPERTIES —			
UL Subject 94	_	UL94	НВ
Oxygen Index	%0 ₂	D2863	21.8
THERMAL PROPERTIES —	2		
Coefficient of Thermal Expansion	In/In/° C x 10 ⁻⁵	D696	2.2
Thermal Conductivity	BTU/hr/Ft²/ln° F	C177	1.8
UL Temperature Index - Electrical	° C	UL 746B	130
- Mechanical UL Recognition File Number	-	UL 746B —	130 E 23525

¹ Typical average values for testing 0.063 inch thick material. Values will vary somewhat from thickness to thickness within a material grade.

Jaco Products: Laminate Die Cutting, Stamping & Machining

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