

EPOXY GLASS LAMINATE

NEMA G11



Laminated Sheet made from layers of fine and plain weave glass fabric, treated with Epoxy Resin having high temperature index upto 155°C.

The material has high mechanical and electrical properties. It has a good mating and punching properties.

It conforms to NEMA LI-1/22 and MIL 24768/3

Sr. No.	Description	Units	Observed Values
MECHANICAL PROPERTIES			
1	Specific Gravity	-	1.7 - 1.9
2	Water Absorption	mg	≤ 20
3	Tensile Strength @ 23°C	Mpa	≥ 300
4	Cross Breaking Strength @ 23°C	Mpa	≥ 350
5	Cross Breaking Strength @ 150°C	Mpa	≥ 180
6	Compression Strength	Mpa	≥ 480
7	Compression Strength @150°C	Mpa	≥ 380
8	Charpy Impact Strength (Izod)	KJ/m ²	≥ 34
9	Shear strength	Mpa	> 30
10	Modulus of elasticity	Gpa	> 24
ELECTRIC PROPOERTIES			
11	Di-electric Strength - Flatwise	Kv/mm	≥ 10.2
12	Di-electric Strength - Edge Wise	Kv/mm	≥ 35
13	Insulation Resistance	M Ohms	$\geq 5 \times 10^4$
14	Comparative Tracking Index	Volts	≥ 200
15	Dissipation factor and permittivity at 250 V/ 50 Hz/ 25°C	-	0.004
16	Permittivity	-	4.98 @ 50Hz

