



# 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 L1 G11 standards.

Sr. No.	Description	Units	Observed Values
<b>MECHANICAL PROPERTIES</b>			
1	Specific Gravity	-	1.7 - 1.9
2	Water Absorption	mg	≤ 20
2	Tensile Strength @ 23°C	Mpa	≥ 300
3	Cross Breaking Strength @ 23°C	Mpa	≥ 350
4	Cross Breaking Strength @ 150°C	Mpa	≥ 180
5	Compression Strength	Mpa	≥ 480
6	Compression Strength @150°C	Mpa	≥ 380
7	Charpy Impact Strength (Izod)	KJ/m <sup>2</sup>	≥ 34
8	Shear strength	Mpa	> 30
9	Modulus of elasticity	Gpa	> 24
<b>ELECTRIC PROPOERTIES</b>			
10	Di-electric Strength - Flatwise	Kv/mm	≥ 10.2
11	Di-electric Strength - Edge Wise	Kv/mm	≥ 35
12	Insulation Resistance	Ohms	≥ 5 x 10 <sup>4</sup>
13	Comparative Tracking Index	Volts	≥ 200