

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.

S.No.	Properties	Units	Observed Values
MECHANICAL PROPERTIES			
1	Specific Gravity	-	1.9
2	Water Absorption, %, max.	mg	< 20
3	Izod Impact Strength (Notched)	Kj/m ²	> 35
4	Tensile Strength	Mpa	> 300
5	Cross Breaking Strength @ 23°C	Mpa	> 330
6	Cross Breaking Strength @ 150°C	Mpa	> 170
7	Compression Strength	Mpa	> 350
8	Elongation Strength	Kg/mm ²	> 30
9	Hardness	Barcol	> 65
ELECTRICAL PROPERTIES			
10	Dielectric strength - Flatwise	Kv/mm	> 15
11	Dielectric breakdown strength at - Flatwise	Kv/mm	> 25
12	Dielectric strength at - Edge Wise	Kv/mm	> 35
13	Dielectric breakdown strength at - Edge Wise	Kv/mm	> 45
14	Insulation Resistance	Ohms	> 5 x 10 ⁴
15	Heat Resistance	°C/2hrs.	> 250