

EPOXY GLASS LAMINATE

FR5



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.

Material Material is Non-brominated and Fire retardant (FR).

It conforms to NEMA LI-1/28 and MIL 24768/28.

Sr. No.	Description	Units	Observed Values
MECHANICAL PROPERTIES			
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	≥ 320
4	Cross Breaking Strength @ 150°C	Mpa	≥ 160
5	Compression Strength	Mpa	≥ 350
6	Charpy Impact Strength	KJ/m2	≥ 34
ELECTRIC PROPERTIES			
7	Di-electric Strength - Flatwise	Kv/mm	≥ 10.2
8	Di-electric Strength - Edge Wise	Kv/mm	≥ 35
9	Insulation Resistance	Ohms	≥ 5 x 10 ⁴
10	Comparative Tracking Index	Volts	≥ 180
FIRE WORTHINESS PROPERTIES			
11	Flammability	Category	V0

