

# EPOXY GLASS LAMINATE

G10/ FR4



Laminated Sheet made from layers of fine and plain weave glass fabric , treated with Epoxy Resin having high temperature index upto 130°C.

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

Material is Brominated and Fire retardant (FR)

It conforms to NEMA LI-1 Grade FR4.

Sr. No.	Description	Units	Observed Values
<b>MECHANICAL PROPOERTIES</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	≥ 320
4	Cross Breaking Strength @ 130°C	Mpa	≥ 160
5	Compression Strength	Mpa	≥ 350
6	Charpy Impact Strength	KJ/m2	≥ 34
<b>ELECTRIC PROPERTIES</b>			
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 <sup>4</sup>
10	Comparative Tracking Index	Volts	≥ 200
<b>FIRE WORTHINESS PROPERTIES</b>			
11	Flammability	Category	V0

