



EPOXY GLASS LAMINATE

EPGC203 / NEMA G11/ HGW 2372.4/ EP3

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 is Non-brominated.

It conforms to EN60893/IEC893 Grade EPGC 203, DIN7735 Grade HGW2372.4, NEMA LI-1 Grade G11 and IS10192 Grade EP3.

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	≥ 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/m2	≥ 34
8	Shear strength	Mpa	> 30
9	Modulus of elasticity	Gpa	> 24
ELECTRIC PROPERTIES			
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 ⁴
13	Comparative Tracking Index	Volts	≥ 200