

EPOXY GLASS LAMINATE

EPGC203



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 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
3	Tensile Strength @ 23°C	Mpa	≥ 300
4	Cross Breaking Strength @ 23°C	Mpa	≥ 350
5	Cross Breaking Strength @ 150°C	Mpa	≥ 180
6	Compression Strength	Mpa	≥ 480
7	Compression Strength @150°C	Mpa	≥ 380
8	Charpy Impact Strength (Izod)	KJ/m ²	≥ 50
9	Splitting Load	N	> 3800
10	Modulus of elasticity	Gpa	> 24
ELECTRIC PROPERTIES			
11	Di-electric Strength $\perp$	Kv/3mm	≥ 12
12	Di-electric Strength $\parallel$	Kv/25mm	≥ 40
13	Insulation Resistance	M Ohms	$\geq 5 \times 10^8$
14	Comparative Tracking Index	Volts	≥ 500
15	Dissipation factor and permittivity at 250 V/ 50 Hz/ 25°C	-	0.004
16	Permittivity	-	4.98 @ 50Hz