



# EPOXY GLASS LAMINATE

## EPGC 308

Laminated Sheet made from layers of fine and plain weave glass fabric , treated with Epoxy Resin having high temperature index unto 180°C (Insulation Class H).

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

It conforms to IEC EPGC 308 and DIN7735 HGW2372.4 required properties.

Sr. No.	Description	Units	Observed Values
1	Specific Gravity	-	1.7 - 1.9
2	Water Absorption	mg	≤ 10
3	Tensile Strength @ 23°C	Mpa	≥ 300
4	Cross Breaking Strength @ 23°C (perpendicular to layer direction)	Mpa	≥ 500
5	Aging Test @ 180°C for 24 hrs at RT	MPa	≥ 400
6	Cross Breaking Strength @ 180°C (perpendicular to layer direction)	Mpa	≥ 200
7	Compression Strength	Mpa	≥ 350
8	Compression Strength @ 180°C	Mpa	≥ 175
9	Modules of elasticity from the bending test	GPa	> 24
10	Charpy Impact Strength (IZOD)	KJ/m <sup>2</sup>	≥ 34
11	Shear Strength (parallel to layer direction)	Mpa	≥ 30
12	Di-electric Strength - Flatwise	Kv/mm	≥ 13
13	Di-electric Strength - Edge Wise	Kv/mm	≥ 35
14	Insulation Resistance	M.Ohms	≥ 5 x 10 <sup>4</sup>
15	Comparative Tracking Index	Volts	≥ 200
16	Dissipation factor and permittivity at 250 V/ 50 Hz/ 25°C	-	0.004
17	Permittivity	-	4.98 @ 50Hz