



POLYESTER GLASS LAMINATE

UPGM 203 / NEMA GP03

Laminated Sheet made from layers of fine glass mat , treated with Resin having high temperature index unto 130°C.

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

Due to its Fire-retardant properties, material is perfect for Railways applications.

Testing Standard : IEC 60893 UPGM 203 and NEMA LI- 1 Grade GPO-3.

S I. No.	Properties	Unit	Observed Values
01.	Physical Appearance	--	Smooth
02.	Flexural Strength at Room Temperature	MPa	>150
03.	Flexural Strength at 130°C	Mpa	>75
04.	IZOD Impact Strength, Parallel to laminate	KJ/m ²	>38
04.	Charpy Impact Strength, Parallel to laminate	KJ/m ²	>43
06.	Electric Strength at 90°C in oil, Perpendicular to laminate	Kv/mm	9
07.	Breakdown Voltage at 90°C in oil, Parallel to laminate	Kv	35
08.	Proof Tracking Index (CTI)	--	>500
09.	Flammability	--	V0
10.	Insulation Resistance	M.Ohm	>5 x 10 ²
11.	Water Absorption Ability	%	0.06

