



POLYESTER GLASS LAMINATE

UPGM 203 / NEMA GP03

Laminated Sheet made from layers of fine glass mat , treated with Resin having high temperature index unto 150°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.

S I. No.	Properties	Unit	Observed Values	Test Method
01.	Physical Appearance	----	Smooth	Visual
02.	Flexural Strength At RT	MPa	180	ISO 178
03.	Compressive Strength	MPa	230	ISO 604
04.	Tensile Strength	Mpa	109	ISO 3268
05.	Combustibility	--	Withstood V-O	IEC-893-2, 7.2
06.	Oxygen Index	%	Withstood 95	IS 13360
07.	Smoke Density Index	--	3	UIC 564-2
08.	Emission Of Toxic Elements On Subjection To Fire	--	0.92	NCD 1409
09.	Dielectric Strength At RT	KV/mm	Withstood 9.5	IEC 243
10.	Arc Resistance	--	Withstood 183	ASTM D-495
11.	Dielectric Strength At 90°C	KV/mm	Withstood 9.5	IEC 243
12.	Leakage Path Cti	V	Withstood 600	IEC 112
13.	Water Absorption Ability	%	0.06	AA-0851701

