



GLASS REINFORCED POLYESTER SHEET MOULDING COMPOUND

SMC

Sr. No.	Properties	Unit	Observed Values	Test Method
1	Density	g/cm ³	1.9	ISO 1183
2	Physical Appearance	----	Smooth	Visual
3	Flexural Strength	MPa	250	IEC-893-2, 5.1
5	Impact Strength (Charpy)	Kj/m ²	75	ISO 179
6	Comparative Tracking index	Volt	600	IEC 60112
7	Fire retardant test	Sec.	V0	UL94
8	Breakdown voltage at 90°C in Oil parallel to lamination	KV	50	IEC-893-2, 6.1
9	Breakdown voltage at 90°C in Oil perpendicular to lamination	KV/mm	10	IEC-893-2, 6.1
10	Tensile Strength	Mpa	105	ISO 527
11	Surface Resistivity (24 hrs. in water)	ohm	1 x 10 ¹¹	IS 3396
12	Volume Resistivity	ohm-cm	1 x 10 ¹³	IS 3396
13	Heat Distortion Temperature	°C	160 ⁰	IEC 60216
14	Dissipation factor, 4 days at 80% RH at 1 KZ	-	0.02	IS 4486

