



GLASS REINFORCED POLYESTER SHEET MOULDING COMPOUND

SMC

Test Standard: IS: 13411-1992				
S.No.	Properties	Specification		
		Grade S1	Grade S2	Grade S3
1	Density g/cm ³	1.8 to 2.0		
2	Glass Content , %	20	25	20
3	Flammability	V0	V0	V0
4	Water Absorption, %, max.	0.20		
5	Izod Impact Strength (Notched) KJ/M ² , min.	35	75	45
6	Tensile Strength, MPa, min.	50	90	50
7	Flexural Strength, min.	150	220	180
8	Modulus of elasticity MPa	1x10 ⁸		
9	Surface resistivity (24h in water) ohm, min.	1x10 ¹³	1x10 ¹¹	1x10 ¹²
10	Volume resistivity (24h in water) ohm-cm, min.	1x10 ¹²	1x10 ¹²	1x10 ¹³
11	Tracking resistance, CTI, Min.	500	500	900
12	Power arc resistance, Sec, min.	110	130	170
13	Dielectric strength at 90 °C in oil KV/mm, Min.	9	9	11
14	Dissipation factor, 4 days at 80% RH at 1 KZ	--	0.03	0.01
15	Heat distortion temperature, °C, Min.	120	140	150
16	Oxygen index, % min.	23	23	25
17	Continuous use temperature (Long term) °C temperature, max.	120	130	130

