

PSFC-MP6500 (POLYSTYRENE MEDIUM IMPACT RESIN)

SR NO	Property	Unit	Test Method	Test Condition	DATA
1	TENSILE STRENGTH	Kg/cm ² (MPa)	ASTM D-638 (IS0527)	23°C	270 (26)
2	TENSILE MODULUS	Kg/cm ² *10 ⁴ (MPa)	ASTM D-638 (IS0527)	23°C	1.6 (1570)
3	TENSILE ELONGATION	%	ASTM D-638 (IS0527)	23°C	35
4	FLEXURAL STRENGTH	Kg/cm ² (MPa)	ASTM D-790 (IS0178)	23°C	550 (54)
5	FLEXURAL MODULUS	Kg/cm ² *10 ⁴ (MPa)	ASTM D-790 (IS0178)	23°C	2.6 (2550)
6	IZOD IMPACT STRENGTH	Kg-cm/cm(J/m)	ASTM D-256 (ISO R180)	23°C 1/4" THICK	6.5 (64)
7	VICAT SOFTENING TEMPERATURE	°C	ASTM D-1525 (ISO306B)	Annealed 80°C x 2Hr 1/8" THICK	95
8	HEAT DEFLECTION TEMPERATURE	°C	ASTM D-648 (ISO 75/A)	Annealed 80°C x 2Hr 1/8" THICK	89
9	MELT FLOW INDEX	g/10 min	ASTM D-1238 (ISO1133)	200°C x 5Kg (49N)	7.0
10	RESIDUAL MONOMER	ppm max.			700
11	MOLDING SHRINKAGE	%		23°C	0.4~0.6
12	SPECIFIC GRAVITY		ASTM D-792 (ISO1183)	23°C/23°C	1.04
13	FLAMMABILITY		UL-94	FILE NO. E162823	1/16" HB NC

Characteristics: Medium impact °

Application : Stationary, Toys, Parts for home electrical appliances, Clothing hangers, Clock housing , FRP blending °