

PSFC-HP9450 (POLYSTYRENE HIGH IMPACT RESIN)

SR NO	Property	Unit	Test Method	Test Condition	DATA
1	TENSILE STRENGTH	Kg/cm ² (MPa)	ASTM D-638 (ISO527)	23°C	240 (24)
2	TENSILE MODULUS	Kg/cm ² *10 ⁴ (MPa)	ASTM D-638 (ISO527)	23°C	1.5 (1470)
3	TENSILE ELONGATION	%	ASTM D-638 (ISO527)	23°C	43
4	FLEXURAL STRENGTH	Kg/cm ² (MPa)	ASTM D-790 (ISO178)	23°C	440 (43)
5	FLEXURAL MODULUS	Kg/cm ² *10 ⁴ (MPa)	ASTM D-790 (ISO178)	23°C	2.2 (2160)
6	IZOD IMPACT STRENGTH	Kg-cm/cm(J/m)	ASTM D-256 (ISO R180)	23°C 1/4" THICK	14.0 (137)
7	VICAT SOFTENING TEMPERATURE	°C	ASTM D-1525 (ISO306B)	Annealed 80°Cx 2Hr 1/8" THICK	95
8	HEAT DEFLECTION TEMPERATURE	°C	ASTM D-648 (ISO 75/A)	Annealed 80°Cx 2Hr 1/8" THICK	88
9	MELT FLOW INDEX	g/10 min	ASTM D-1238 (ISO1133)	200°C x 5Kg (49N)	2.3
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: Super high impact ◦

Application : HP sheets , Cable reels , Packing ◦