

PSFC-GP5250 (POLYSTYRENE General Purpose RESIN)

SR NO	Property	Unit	Test Method	Test Condition	DATA
1	TENSILE STRENGTH	Kg/cm ² (MPa)	ASTM D-638 (IS0527)	23°C	420 (41)
2	TENSILE ELONGATION	%	ASTM D-638 (IS0527)	23°C	2.1
3	FLEXURAL STRENGTH	Kg/cm ² (MPa)	ASTM D-790 (IS0178)	23°C	800 (78)
4	FLEXURAL MODULUS	Kg/cm ² *10 ⁴ (MPa)	ASTM D-790 (IS0178)	23°C	3.4 (3330)
5	IZOD IMPACT STRENGTH	Kg-cm/cm(J/m)	ASTM D-256 (ISO R180)	23°C 1/4" THICK	1.8 (18)
6	VICAT SOFTENING TEMPERATURE	°C	ASTM D-1525 (ISO306B)	Annealed 80°C x 2Hr 1/8" THICK	93
7	HEAT DEFLECTION TEMPERATURE	°C	ASTM D-648 (ISO 75/A)	Annealed 80°C x 2Hr 1/8" THICK	88
8	MELT FLOW INDEX	g/10 min	ASTM D-1238 (ISO1133)	200°C x 5Kg (49N)	7.0
9	RESIDUAL MONOMER	ppm max.			700
10	MOLDING SHRINKAGE	%		23°C	0.3-0.5
11	SPECIFIC GRAVITY		ASTM D-792 (ISO1183)	23°C/23°C	1.04
12	FLAMMABILITY		UL-94	FILE NO. E162823	1/16" HB NC

Characteristics: Injection molding •

Application : Food containers, stationary, toys, clothing hangers, lamp decoration; CD, cassette & cosmetic cases •