

Supreme Petrochem SH 2114 High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Characteristics Very high impact strength Easy processing High heat Processing Extrusion Molding Applications Toys, shoe heels, cosmetic boxes, pill vials Luggage cases Blending with clear polystyrene for translucent cups and lids Material Status: Commercial : Active Agency Ratings: FDA 21 CFR 177.1640 Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SH-2114-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	2.2 g/10 min @Load 5.00 kg, Temperature 200 Å°C	2.2 g/10 min @Load 11.0 lb, Temperature 392 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.4 MPa	4260 psi	50 mm/min; ASTM D638
Elongation at Break	50 %	50 %	50 mm/min; ASTM D638
Flexural Strength	49.0 MPa @Thickness 3.20 mm	7110 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.81 GPa @Thickness 3.20 mm	263 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	1.20 J/cm @Thickness 3.20 mm	2.25 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	83.0 Å°C	181 Å°F	ASTM D648
Vicat Softening Point	105 Å°C	221 Å°F	1kg / 120Å°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 Å°C	356 - 500 Å°F	

Mold Temperature Processing Properties	40.0 - 60.0 A°C Metric	104 - 140 A°F English	Comments
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