

Supreme Petrochem SH 825 High Impact Polystyrene

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

Material Notes:

Characteristics Good flow properties Very good stiffness High heat grade Processing Molding Applications Home appliances, lamp shades, wall clocks Gift sets, picnic boxes Air cooler, watch cases 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-825-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	7.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	7.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	23.5 MPa	3410 psi	50 mm/min; ASTM D638
Elongation at Break	45 %	45 %	50 mm/min; ASTM D638
Flexural Strength	44.1 MPa @Thickness 3.20 mm	6400 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	2.21 GPa @Thickness 3.20 mm	320 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	0.850 J/cm @Thickness 3.20 mm	1.59 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 Â°C	171 Â°F	ASTM D648
Vicat Softening Point	100 Â°C	212 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

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

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