

Supreme Petrochem SH 731 High Impact Polystyrene

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

Material Notes:

Characteristics Medium flow High Impact Excellent formability Low temperature toughness Processing Extrusion Molding

Forming Applications Thermoformed containers, extruded profiles, packaging products Plates, dishes, disposable cups, deep drawn thermoformed containers Also suitable for audio/video cabinets, business machines, ball pen etc. Material Status: Commercial :

Active Agency Ratings: FDA 21 CFR 177.1640, UL file E185934 Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SH-731-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	4.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	4.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.4 MPa	4120 psi	50 mm/min; ASTM D638
Elongation at Break	50 %	50 %	50 mm/min; ASTM D638
Flexural Strength	43.1 MPa @Thickness 3.20 mm	6250 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.86 GPa @Thickness 3.20 mm	270 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	1.10 J/cm @Thickness 3.20 mm	2.06 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C	180 Â°F	ASTM D648
Vicat Softening Point	102 Â°C	216 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	

Processing Properties

Metric 50.0 A°C

English 120 A°F

Comments

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