

Supreme Petrochem SP 246 Toughened Polystyrene

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

Material Notes:

Characteristics Excellent clarity Very high toughness Deep drawability Improved thermal stabilityProcessing Extrusion

ThermoformingApplications Thermoformed clear and deep draw products Rectangular bowls, salad containers, deli packaging Extruded

films, sheets and profiles Lids, clam shellsMaterial Status: Commercial : ActiveAgency Ratings: FDA 21 CFR 177.1640Information provided

by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-246-Toughened-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	6.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.8 MPa	5340 psi	50 mm/min; ASTM D638
Elongation at Break	10 %	10 %	50 mm/min; ASTM D638
Flexural Strength	51.5 MPa @Thickness 3.20 mm	7470 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.77 GPa @Thickness 3.20 mm	256 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	0.150 J/cm @Thickness 3.20 mm	0.281 ft-lb/in @Thickness 0.126 in	ASTM D256
Izod Impact, Unnotched	2.75 J/cm @Thickness 3.20 mm	5.15 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.0 Â°C	165 Â°F	ASTM D648
Vicat Softening Point	101 Â°C	214 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Haze	1.5 %	1.5 %	SPL test method
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Transmission, Visible	88 %	88 %	SPL test method
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Processing Properties	Metric	English	Comments
Melt Temperature	<= 220 Â°C	<= 428 Â°F	
Mold Temperature	40.0 - 50.0 Â°C	104 - 122 Â°F	

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