

Supreme Petrochem SP 263 Toughened Polystyrene

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

Material Notes:

Characteristics Good flexibility Easy flow Good stiffness Processing Injection molding Applications Transparent hangers 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-SP-263-Toughened-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Melt Flow	5.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	5.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.1 MPa	6250 psi	50 mm/min; ASTM D638
Elongation at Break	25 %	25 %	50 mm/min; ASTM D638
Flexural Strength	58.8 MPa @Thickness 3.20 mm	8530 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	2.16 GPa @Thickness 3.20 mm	313 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	0.200 J/cm @Thickness 3.20 mm	0.375 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Â°C	178 Â°F	ASTM D648
Vicat Softening Point	101 Â°C	214 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Haze	30 % @Thickness 1.00 mm	30 % @Thickness 0.0394 in	SPL test method

Optical Properties	Metric	English	Comments
	@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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