

Supreme Petrochem SP 256 Toughened Polystyrene

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

Material Notes:

Characteristics Superior flexibility Good ball drop strength Excellent clarity Easy flow Processing Injection molding Applications
Transparent hangers Stationery items like pen barrels, geometric instruments Medical products Appliance parts Toys and fashion
accessories Caps for spray cans 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-256-Toughened-Polystyrene.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.3 MPa	4970 psi	50 mm/min; ASTM D638
Elongation at Break	10 %	10 %	50 mm/min; ASTM D638
Flexural Strength	46.1 MPa @Thickness 3.20 mm	6690 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.72 GPa @Thickness 3.20 mm	249 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	2.75 J/cm @Thickness 3.20 mm	5.15 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)	71.0 Â°C	160 Â°F	ASTM D648
Vicat Softening Point	98.0 Â°C	208 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	1.0 % @Thickness 1.00 mm	1.0 % @Thickness 0.0394 in	SPL test method
Transmission, Visible	88 % @Thickness 1.00 mm	88 % @Thickness 0.0394 in	SPL test method

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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