

Supreme Petrochem SP 255 Toughened Polystyrene

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

Material Notes:

Characteristics Superior flexibility Excellent flow grade High ball drop strength Good clarity Processing Extrusion Thermoforming Injection Molding Applications Transparent hangers, stationery items, medical products Extrusion thermoformed clear and deep draw containers Glossy, tough cap layer on HIPS Sheets 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-255-Toughened-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 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	39.2 MPa	5690 psi	50 mm/min; ASTM D638
Elongation at Break	10 %	10 %	50 mm/min; ASTM D638
Flexural Strength	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.96 GPa @Thickness 3.20 mm	284 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	2.00 J/cm @Thickness 3.20 mm	3.75 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	102 Â°C	216 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
	2.0 %	2.0 %	

Haze Optical Properties	Metric @ Thickness 1.00 mm	English @ Thickness 0.0394 in	Comments
Transmission, Visible	82 %	82 %	
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Processing Properties	Metric	English	Comments
Melt Temperature	$\leq 220 \text{ }^{\circ}\text{C}$	$\leq 428 \text{ }^{\circ}\text{F}$	
Mold Temperature	40.0 - 50.0 $^{\circ}\text{C}$	104 - 122 $^{\circ}\text{F}$	

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