

Supreme Petrochem SP 266 Toughened Polystyrene

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

Material Notes:

CharacteristicsGood stiffness Excellent toughness High flow Excellent clarity Processing Injection moldingApplications Transparent hangers Stationery items like pen barrels, geometric instruments Medical components

Material 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-266-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	10 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Â°C	@Load 11.0 lb, Temperature 392 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.3 MPa	4970 psi	50 mm/min; ASTM D638
Elongation at Break	20 %	20 %	50 mm/min; ASTM D638
Flexural Strength	46.6 MPa	6760 psi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	1.77 GPa	256 ksi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched	0.150 J/cm	0.281 ft-lb/in	ASTM D256
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Unnotched	3.25 J/cm	6.09 ft-lb/in	ASTM D256
	@Thickness 3.20 mm	@Thickness 0.126 in	

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	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	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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