

Supreme Petrochem SP201 4551 Light Stabilized Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

Characteristics Excellent light stability to fluorescent & incandescent light sources Very high clarity and heat resistance Excellent strength & stiffness Processing Injection molding Extrusion Applications Extruded embossed sheets Extruded diffuser profiles Molded light diffusers Lighting covers 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-SP201-4551-Light-Stabilized-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 200 °C	2.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	50 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	50 mm/min; ASTM D638
Flexural Strength	97.1 MPa @Thickness 3.20 mm	14100 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	2.94 GPa @Thickness 3.20 mm	427 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)	87.0 °C	189 °F	ASTM D648
Vicat Softening Point	106 °C	223 °F	1kg / 120°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
	88 %	88 %	

Haze Optical Properties	Metric @ Thickness 1.00 mm	English @ Thickness 0.0394 in	ASTM D1003 Comments
Transmission, Visible	1.0 % @Thickness 1.00 mm	1.0 % @Thickness 0.0394 in	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	<= 250 °C	<= 482 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	

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