

Supreme Petrochem SP 6450 High Heat Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

Characteristics High impact and modulus Very good flow properties High heat resistance & strength Available in any dark color Processing Injection molding Applications Instrument enclosures Automobile interior parts Telecommunication components HVAC components Material Status: Commercial : Active Agency Ratings: Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-6450-High-Heat-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D792
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 200 Â°C	10 g/10 min @Load 22.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.8 MPa	5340 psi	50 mm/min; ASTM D638
Elongation at Break	50 %	50 %	50 mm/min; ASTM D638
Flexural Strength	58.8 MPa @Thickness 3.20 mm	8530 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	1.30 J/cm @Thickness 3.20 mm	2.44 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	90.0 Â°C	194 Â°F	IEC335-1
Deflection Temperature at 1.8 MPa (264 psi)	105 Â°C	221 Â°F	ASTM D648
Vicat Softening Point	110 Â°C	230 Â°F	5kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	IEC 93
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	IEC 93
Dielectric Constant	2.6 @Frequency 1e+6 Hz	2.6 @Frequency 1e+6 Hz	IEC 250
Dissipation Factor	0.00040 @Frequency 1e+6 Hz	0.00040 @Frequency 1e+6 Hz	IEC 250

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 Â°C	464 - 536 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	(2 hrs) Pre drying temp.

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