

Supreme Petrochem SP 515 Flame Retardant Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

Characteristics Good flow properties Good balance of toughness and rigidity Available in any color Processing Injection molding Extrusion

Applications Electrical switch boards MCB distribution boxes Electrical gang boxes Emergency light enclosures Enclosures of current

transformer etc. 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-515-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Melt Flow	8.0 g/10 min	8.0 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	31.4 MPa	4550 psi	50 mm/min; ASTM D638
Elongation at Break	20 %	20 %	50 mm/min; ASTM D638
Flexural Strength	53.0 MPa	7690 psi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	1.57 GPa	228 ksi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM D256
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	82.0 Â°C	180 Â°F	IEC335-1
Deflection Temperature at 1.8 MPa (264 psi)	83.0 Â°C	181 Â°F	ASTM D648
Vicat Softening Point	103 Â°C	217 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	960 Â°C	1760 Â°F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Gloss	95 %	95 %	at 60°; ASTM D523

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	2.6	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00040	0.00040	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	≤ 250 °C	≤ 482 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	
Drying Temperature	60.0 - 80.0 °C	140 - 176 °F	(2 hrs) Pre drying temp.

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