

Supreme Petrochem SP 553 Flame Retardant Polystyrene

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

Material Notes:

Characteristics High flow properties Good balance of toughness and rigidity Available in any color Processing Molding Applications Large size T.V. Cabinets VCR cabinets Electrical boxes, electrical appliance parts Material Status: Commercial : Active Agency Ratings: UL 94 file E 185934 Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-553-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 200 Â°C	10 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.5 MPa	3550 psi	50 mm/min; ASTM D638
Elongation at Break	40 %	40 %	50 mm/min; ASTM D638
Flexural Strength	39.2 MPa @Thickness 3.20 mm	5690 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.86 GPa @Thickness 3.20 mm	270 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	1.00 J/cm @Thickness 3.20 mm	1.87 ft-lb/in @Thickness 0.126 in	ASTM D256

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)	81.0 Â°C	178 Â°F	ASTM D648
Vicat Softening Point	101 Â°C	214 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Glow Wire Test	850 Â°C	1560 Â°F	IEC 695-2-1

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 Â°C	≤ 482 Â°F	
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	
Drying Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Pre drying temp.

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