

Supreme Petrochem SP 566 Flame Retardant Polystyrene

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

Material Notes:

Characteristics Good flow and toughness Free of DBDPO, PBDE & TBBA, complies with ROHS directive of EU Available in any color

Processing Extrusion Molding Applications Large size T.V. Cabinets Electrical appliance parts, business machines Sheets for mass transit furnishing etc. 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-566-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Melt Flow	5.0 g/10 min	5.0 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	27.5 MPa	3990 psi	50 mm/min; ASTM D638
Elongation at Break	40 %	40 %	50 mm/min; ASTM D638
Flexural Strength	34.3 MPa	4970 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	1.00 J/cm	1.87 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)	80.0 Â°C	176 Â°F	ASTM D648
Vicat Softening Point	97.0 Â°C	207 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	850 Â°C	1560 Â°F	IEC 695-2-1

Electrical Properties	Metric	English	Comments

Volume Resistivity Electrical Properties	$\geq 1.00\text{e}+16$ ohm-cm Metric	$\geq 1.00\text{e}+16$ ohm-cm English	IEC 93 Comments
Surface Resistance	$\geq 1.00\text{e}+14$ ohm	$\geq 1.00\text{e}+14$ 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	≤ 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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