

Supreme Petrochem SP 562 Flame Retardant Polystyrene

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

Material Notes:

Characteristics Very good flow properties Free of DBDPO, PBDE & TBBA, complies with ROHS directive of EU Low specific gravity

Processing Injection molding Applications Large size T.V. Cabinets Audio cabinets Electrical boxes, electrical appliance parts Electrical distribution components, fuse carriers, enclosures 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-562-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.4 MPa	4120 psi	50 mm/min; ASTM D638
Elongation at Break	35 %	35 %	50 mm/min; ASTM D638
Flexural Strength	37.3 MPa @Thickness 3.20 mm	5410 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	2.06 GPa @Thickness 3.20 mm	299 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	1.10 J/cm @Thickness 3.20 mm	2.06 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	78.0 Â°C	172 Â°F	IEC335-1
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Â°C	178 Â°F	ASTM D648
Vicat Softening Point	97.0 Â°C	207 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Glow Wire Test	650 Â°C	1200 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	(2 hrs) Pre drying temp.

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