

Supreme Petrochem SP 556 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 Extrusion

MoldingApplications T.V. Cabinets, computer monitor, printer housing Electrical switch boards, MCB distribution boxes, electrical gang boxes Extruded sheets can be used for lining in mass transit system and for forming appliances bodiesMaterial Status: Commercial :

ActiveAgency Ratings: FDA 21 CFR 177.1640, UL file E185934Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-556-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Melt Flow	4.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	4.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	27.5 MPa	3990 psi	50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	50 mm/min; ASTM D638
Flexural Strength	37.2 MPa @Thickness 3.20 mm	5400 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.77 GPa @Thickness 3.20 mm	256 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	103 Â°C	217 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	960 Â°C	1760 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	
Comparative Tracking Index	450 V	450 V	IEC 112

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.

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China