

Supreme Petrochem SP 555 Flame Retardant Polystyrene

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

Material Notes:

Characteristics Very good flow properties Good balance of toughness and rigidity Available in any dark colors Processing

MoldingApplications Large size T.V. Cabinets VCR cabinets Electrical boxes, electrical appliance partsMaterial Status: Commercial :

ActiveAgency Ratings: UL 94 file E 185934Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-555-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	25.5 MPa	3700 psi	50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	50 mm/min; ASTM D638
Flexural Strength	34.3 MPa	4970 psi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	1.86 GPa	270 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	98.0 Â°C	208 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 93

Surface Resistance Electrical Properties	$\geq 1.00 \times 10^{14}$ ohm Metric	$\geq 1.00 \times 10^{14}$ ohm English	IEC 93 Comments
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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