

Supreme Petrochem SP 554 Flame Retardant Polystyrene

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

Material Notes:

Characteristics Very good flow properties Good balance of toughness and rigidity Processing Molding Gas assist 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-554-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 200 Â°C	15 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.6 MPa	3280 psi	50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	50 mm/min; ASTM D638
Flexural Strength	35.3 MPa @Thickness 3.20 mm	5120 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	17.7 GPa @Thickness 3.20 mm	2560 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	75.0 Â°C	167 Â°F	IEC335-1
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Â°C	174 Â°F	ASTM D648
Vicat Softening Point	96.0 Â°C	205 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	V-0 @Thickness 2.00 mm	V-0 @Thickness 0.0787 in	

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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