Supreme Petrochem SP 6520 Permanent Antistatic Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

Characteristics No sloughing Fully colorable Meets MIL-PRF-81705D static decay specification Functions even in low humidity levels

Processing Injection molding Extrusion & Forming Applications Component handling systems Chip trays ESD applications PCB boxes

Component boxes Material Status: Commercial : ActiveAgency Ratings: Information provided by Supreme Petrochem LTD

Order this product through the following link:
http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-6520-Permanent-Antistatic-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	27.0 MPa	3920 psi	50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	50 mm/min; ASTM D638
Flexural Strength	43.1 MPa @Thickness 3.20 mm	6250 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.47 GPa @Thickness 3.20 mm	213 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	0.550 J/cm @Thickness 3.20 mm	1.03 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Â°C	178 Â°F	ASTM D648
Vicat Softening Point	98.0 Â°C	208 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 - 1.00e+10 ohm-cm	1.00e+9 - 1.00e+10 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
	1.00e+9 - 1.00e+10 ohm	1.00e+9 - 1.00e+10 ohm	
Static Decay	<= 2.0 sec	<= 2.0 sec	MIL-PRF-81705D

Processing Properties	Metric	English	Comments
Melt Temperature	<= 230 Â°C	<= 446 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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