

## Supreme Petrochem SPEXP 44 Antistatic Polystyrene

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

### Material Notes:

Characteristics Easy flow Good transparency Very good flexibility Processing Extrusion Applications Transparent profiles for electrostatic dissipative packaging of small electronic components such as computer microchip etc. Material Status: Developmental Agency Ratings:

Information provided by Supreme Petrochem LTD

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Supreme-Petrochem-SPEXP-44-Antistatic-Polystyrene.php](http://www.lookpolymers.com/polymer_Supreme-Petrochem-SPEXP-44-Antistatic-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 200 Å°C	10 g/10 min @Load 11.0 lb, Temperature 392 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.3 MPa	4970 psi	50 mm/min; ASTM D638
Elongation at Break	10 %	10 %	50 mm/min; ASTM D638
Flexural Strength	44.1 MPa @Thickness 3.20 mm	6400 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	1.67 GPa @Thickness 3.20 mm	242 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	0.150 J/cm @Thickness 3.20 mm	0.281 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.0 Å°C	165 Å°F	ASTM D648
Vicat Softening Point	94.0 Å°C	201 Å°F	1kg / 120Å°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Haze	1.2 % @Thickness 1.00 mm	1.2 % @Thickness 0.0394 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	IEC 93

Processing Properties	Metric	English	Comments
Melt Temperature	$\leq 220$ °C	$\leq 428$ °F	
Drying Temperature	60.0 - 80.0 °C	140 - 176 °F	( 2 hrs) Pre drying temp.

## Contact Songhan Plastic Technology Co.,Ltd.

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