

Supreme Petrochem SP 6425 9885 Abrasion Resistant Polystyrene

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

Material Notes:

Characteristics Low friction, impact polystyrene to provide wear resistance and static charge dissipation Excellent gloss & molded appearance and weld line miscibility Easy flowing grade with good impact resistance Processing Injection molding Applications High speed molding of thin walled 3.5" Microfloppy diskettes shells and other magnetic storage devices Material Status: Commercial : Active Agency Ratings: Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-6425-9885-Abrasion-Resistant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Melt Flow	50 g/10 min @Load 10.0 kg, Temperature 200 Â°C	50 g/10 min @Load 22.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	29.4 MPa	4260 psi	50 mm/min; ASTM D638
Elongation at Break	40 %	40 %	50 mm/min; ASTM D638
Flexural Strength	48.1 MPa @Thickness 3.20 mm	6980 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	2.26 GPa @Thickness 3.20 mm	327 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	0.900 J/cm @Thickness 3.20 mm	1.69 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C	172 Â°F	ASTM D648
Vicat Softening Point	97.0 Â°C	207 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+12 - 1.00e+13 ohm	1.00e+12 - 1.00e+13 ohm	ASTM D257

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.

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