

Supreme Petrochem SP6433 9710 Medium Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Characteristics High flow Good toughness Good shine Available in various colors Processing Injection molding Extrusion Applications

Pipes & profiles for wiring Beading for furniture and tables Containers for packaging Material Status: Commercial : Active Agency Ratings:

FDA 21 CFR 177.1640 Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP6433-9710-Medium-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	17 g/10 min	17 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	30.4 MPa	4410 psi	50 mm/min; ASTM D638
Elongation at Break	35 %	35 %	50 mm/min; ASTM D638
Flexural Strength	49.0 MPa	7110 psi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched	0.450 J/cm	0.843 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)	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	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 Â°C	356 - 500 Â°F	

Mold Temperature Processing Properties	40.0 - 60.0 Å°C Metric	104 - 140 Å°F English	Comments
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