

Supreme Petrochem SC 203EL General Purpose Polystyrene

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

Material Notes:

Characteristics: Medium flow grade with good mechanical properties. Improves productivity due to good balance of flow, heat and mold release properties. Processing: Injection molding. Applications: Audio cassettes housing and covers, Medical applications like disposable infusion trays, screw vials etc. Crystal wares, mugs, trays, bowls, pen stands, fruit bowls, service trays etc. Material Status: Commercial : Active. Agency Ratings: FDA 21 CFR 177.1640, UL file E185934. Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SC-203EL-General-Purpose-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.1 MPa	6980 psi	50 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	50 mm/min; ASTM D638
Flexural Strength	80.4 MPa @Thickness 3.20 mm	11700 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	2.84 GPa @Thickness 3.20 mm	412 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	0.200 J/cm @Thickness 3.20 mm	0.375 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C	180 Â°F	ASTM D648
Vicat Softening Point	101 Â°C	214 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

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

Processing Properties

Metric 50.0 A°C

English 120 A°F

Comments

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