

Supreme Petrochem SC 203 LV General Purpose Polystyrene

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

Material Notes:

Characteristics Good flow grade with good mechanical properties Good clarity and flexibility Easy processing grade and suitable for thin walled applications Processing Extrusion Molding Applications Suitable for glossy cap layer on HIPS in refrigerator industry Suitable for tooth brushes and tooth brush containers, novelties, house wares and crystal wares Ball pen barrels and geometric Instruments 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-SC-203-LV-General-Purpose-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	9.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	9.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.1 MPa	6690 psi	50 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	50 mm/min; ASTM D638
Flexural Strength	76.5 MPa @Thickness 3.20 mm	11100 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)	78.0 Â°C	172 Â°F	ASTM D648
Vicat Softening Point	96.0 Â°C	205 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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