

## Supreme Petrochem SC 6501 Toughened Polystyrene

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

### Material Notes:

Characteristics Excellent melt strength Extremely tough Easy printability Easy miscibility with most grades of polystyrene Processing Extrusion Thermoforming Injection Molding Applications Impact modifier for HIPS for industrial thermoforming Toys, appliances requiring very high toughness 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-6501-Toughened-Polystyrene.php](http://www.lookpolymers.com/polymer_Supreme-Petrochem-SC-6501-Toughened-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 200 Â°C	10 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.7 MPa	2130 psi	50 mm/min; ASTM D638
Elongation at Break	>= 75 %	>= 75 %	50 mm/min; ASTM D638
Flexural Strength	17.2 MPa @Thickness 3.20 mm	2490 psi @Thickness 0.126 in	ASTM D790
Flexural Modulus	0.686 GPa @Thickness 3.20 mm	99.6 ksi @Thickness 0.126 in	ASTM D790
Izod Impact, Notched	4.00 J/cm @Thickness 3.20 mm	7.49 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Â°C	169 Â°F	ASTM D648
Vicat Softening Point	90.0 Â°C	194 Â°F	1kg / 120Â°C; ASTM D1525
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	<= 220 Â°C	<= 428 Â°F	

Processing Properties

Metric 50.0 A°C

English 12 A°F

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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