

## Supreme Petrochem SP 6503 High Impact Polystyrene

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

### Material Notes:

Characteristics High Impact Available in various colors Easy flow High stiffness Processing Injection molding Applications Computer cabinet, printer body, business machine housing etc. 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-SP-6503-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-6503-High-Impact-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	4.2 g/10 min	4.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Â°C	@Load 11.0 lb, Temperature 392 Â°F	
	48 g/10 min	48 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 200 Â°C	@Load 22.0 lb, Temperature 392 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.9 MPa	4630 psi	50 mm/min; ASTM D638
Elongation at Break	40 %	40 %	50 mm/min; ASTM D638
Flexural Strength	51.4 MPa	7450 psi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	1.96 GPa	284 ksi	ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched	1.25 J/cm	2.34 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)	81.0 Â°C	178 Â°F	ASTM D648
Vicat Softening Point	105 Â°C	221 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	40.0 - 60.0 Â°C	104 - 140 Â°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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