

# SUPREME Specialty PS SP6503

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME Specialty PS SP6503 is a High Impact Polystyrene product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of SUPREME Specialty PS SP6503 include business/office goods, food contact applications, housings and printing applications.

Characteristics include:

- Flame Rated
- High Flow
- High Stiffness
- Impact Resistant

General Information			
Features	High Flow		
	High Impact Resistance		
	High Stiffness		
Uses	Business Equipment		
	Housings		
	Printer		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (23°C, 3.20 mm, Injection Molded)	33.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 23°C, 3.20 mm, Injection Molded)	40	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	2000	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	53.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	81.0	°C	ASTM D648

Vicat Softening Temperature	105	°C	ASTM D1525 <sup>3</sup>
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	40.0 to 60.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

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Recommended distributors for this material


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