

# SUPREME Specialty PS SP6415

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME Specialty PS SP6415 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 SP6415 include appliances and food contact applications.

Characteristics include:

- Flame Rated
- Good Toughness
- High ESCR (Stress Crack Resistant)
- High Gloss

General Information			
Features	Good Toughness		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
Uses	Appliance Components		
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)	5.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (23°C, 3.20 mm, Injection Molded)	25.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 23°C, 3.20 mm, Injection Molded)	30	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	2000	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	78.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°C	ASTM D1525 <sup>3</sup>
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94

Optical	Nominal Value	Test Method
Gardner Gloss (60°, 3200 µm, Injection Molded)	90	ASTM D523
Injection	Nominal Value	Unit
Processing (Melt) Temp	195 to 260	°C
Mold Temperature	50.0 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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