

SUPREME Specialty PS SP8001

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME Specialty PS SP8001 is a High Impact Polystyrene product. It can be processed by extrusion or thermoforming and is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of SUPREME Specialty PS SP8001 include containers, appliances, bags/liners and food contact applications.

Characteristics include:

Flame Rated

Chemical Resistant

Good Toughness

Heat Resistant

High ESCR (Stress Crack Resistant)

General Information	
Features	Good Chemical Resistance High ESCR (Stress Crack Resist.) High Gloss High Heat Resistance Ultra High Toughness
Uses	Appliance Components Food Containers Industrial Containers Liners
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.20 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	22.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	60	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1100	MPa	ASTM D790

Flexural Strength (23°C, 3.20 mm, Injection Molded)	34.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	330	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	90.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°, Injection Molded)	90		ASTM D523
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 230	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

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