

SUPREME Specialty PS SP246

Specialty Polystyrene
Supreme Petrochem Ltd.

Message:

Toughened Polystyrene
Characteristics:
Excellent Clarity
High Toughness
Deep Drawability
Processing:
Extrusion & Forming
Applications:
Thermoformed clear and deepdraw products.
Rectangular bowls, salad container, deli packaging
Extruded films, sheets and profiles, lids, clamshells.
Blended with HIPS for improved gloss toughness

General Information			
Features	Good stripping		
	Definition, high		
	Good toughness		
Uses	Films		
	Kitchen utensils		
	Cover		
	Sheet		
	Food packaging		
	Food container		
	Profile		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
	Sheet extrusion molding		
	Thermoforming		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	38.0	MPa	ASTM D638

Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	10	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1800	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)	15	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	280	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	74.0	°C	ASTM D648
Vicat Softening Temperature	101	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (1000 μm)	88.0	%	ASTM D1003
Haze (1000 μm)	1.5	%	ASTM D1003
Additional Information			
The value listed as Haze, ASTM D1003 may not have been tested according to this standard. The value listed as Transmittance, ASTM D1003 may not have been tested according to this standard.			
Extrusion	Nominal Value	Unit	
Melt Temperature	220	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	标准 B (120°C/h), 压力1 (10N)		

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