

SUPREME Specialty PS SP256

Specialty Polystyrene

Supreme Petrochem Ltd.

Message:

Toughened Polystyrene

Characteristics:

Superior Flexibility

Good Ball Drop Strength

Excellent Clarity

Easy Flow

Processing:

Molding

Applications:

Transparent hangers

Stationery items like pen barrel, geometric instruments

Appliance & medical products

Toys and fashion accessories

Blended with HIPS for improved gloss toughness

General Information			
Features	Impact resistance, good		
	Good liquidity		
	Good flexibility		
	Definition, high		
	Compliance of Food Exposure		
Uses	Home appliance components		
	Toys		
	Stationery		
	Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection 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)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	35.0	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)	1750	MPa	ASTM D790

Flexural Strength (23°C, 3.20 mm, Injection Molded)	47.0	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)	71.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°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)	1.0	%	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.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220	°C	
Mold Temperature	40.0 - 50.0	°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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