SUPREME Specialty PS SP253

Specialty Polystyrene

Supreme Petrochem Ltd.

Message:

Toughened Polystyrene

Characteristics:

High Stiffness

Moderate Toughness

Good Clarity

Processing:

Molding

Applications:

Ball pens

Small appliances housings

Small impellers

Blended with HIPS for improved gloss

General Information					
Features	Rigidity, high				
	Good toughness				
	Medium transparency				
Uses	Home appliance components				
	Shell				
	Stationery				
Agency Ratings	FDA 21 CFR 177.1640				
Forms	Particle				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.02	g/cm³	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)	43.0	МРа	ASTM D638		
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	5.0	%	ASTM D638		
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	2200	MPa	ASTM D790		
Flexural Strength (23°C, 3.20 mm, Injection Molded)	60.0	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)	200	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	103	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	НВ		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (1000 μm)	88.0	%	ASTM D1003
Haze (1000 μm, Injection Molded)	2.5	%	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.

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℃/h), 压 力1 (10N)	

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