SUPREME Specialty PS SP266

Specialty Polystyrene

Supreme Petrochem Ltd.

Message:

Toughened Polystyrene
Characteristics:
Good Balance of Stiffness & Flexibility
Excellent Toughness
High Flow
Excellent Clarity
Processing:
Molding
Applications:
Stationery items like ball pen barrels, geometric instruments
Transparent hangers
Medical components
Blended with HIPS for improved gloss & toughness

General Information			
Features	Good Flexibility Good Stiffness High Clarity High Flow Ultra High Toughness		
Uses	Medical/Healthcare Applications Stationary Supplies		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Clear/Transparent		
Forms	Pellets		
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)	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)	20	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1800	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	48.0	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)	330	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
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	220	°C	
Mold Temperature	40.0 to 50.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

Recommended distributors for this material

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