SUPREME Specialty PS SP265

Specialty Polystyrene

Supreme Petrochem Ltd.

Message:

Toughened Polystyrene
Characteristics:
Good Clarity
High Dart Impact Strength
High Heat Resistance
Good Stiffness
Excellent Low Temperature Toughness
Processing:
Extrusion & Forming
Applications:
Disposable glasses & bowls
Deep draw formed products
Thermoformed hot fill & frozen Food packing applications
Blended with HIPS for improved toughness & gloss

General Information	
Features	Low Temperature Flexibility
	Rigid, good
	High strength
	Impact resistance, high
	Heat resistance, high
	Compliance of Food Exposure
	Disposable
	Medium transparency
Uses	Cup
	Kitchen utensils
	Container
	Food packaging
Agency Ratings	FDA 21 CFR 177.1640
Forms	Particle
Processing Method	Extrusion
	Thermoforming

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)	35.0	MPa	ASTM D638

Tensile Elongation [2] (Break, 23°C, 3.20 mm, Injection Molded)	30	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1800	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	50.0	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)	300	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	79.0	°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)	86.0	%	ASTM D1003
Haze (1000 µm)	5.5	%	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)		

Recommended distributors for this material

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