

SUPREME HIPS SH3001D

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME HIPS SH3001D is a high impact polystyrene product. It can be processed by extrusion or injection molding and is available in North America, Africa and the Middle East, Europe or Asia Pacific. The application fields of SUPREME HIPS SH3001D include consumer goods, kitchen utensils, home applications and food contact applications.

- Features include:
- flame retardant/rated flame
 - Good processability
 - Good stiffness

General Information	
Features	Rigid, good
	Workability, good
	Good formability
	Medium liquidity
Uses	Cosmetics
	Household goods
	Toys
	Disposable tableware
Agency Ratings	FDA 21 CFR 177.1640
Appearance	Translucent
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	34.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	45	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1860	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	52.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	80	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	82.0	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 - 260	°C	
Mold Temperature	40.0 - 60.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 260	°C	
Extrusion instructions			
Mold Temp: 40 to 60°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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