

# SUPREME HIPS SH 3001

High Impact Polystyrene

Supreme Petrochem Ltd.

## Message:

SUPREME HIPS SH 3001 is a High Impact Polystyrene product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of SUPREME HIPS SH 3001 include electrical/electronic applications, engineering/industrial parts, food contact applications, household applications and housings.

Characteristics include:

- Clarity
- Fast Molding Cycle
- Food Contact Acceptable
- Good Aesthetics
- Good Processability

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	High Clarity		
	High Heat Resistance		
	High Strength		
	Medium Flow		
	Pleasing Surface Appearance		
Uses	Audio Tapes		
	Cups		
	Electrical/Electronic Applications		
	Household Goods		
	Housings		
	Medical/Healthcare Applications		
	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	29.4	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	50	%	ASTM D638
Flexural Modulus (3.20 mm)	1960	MPa	ASTM D790

Flexural Strength (Yield, 3.20 mm)	44.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	84.0	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525 <sup>3</sup>
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h)		

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#### Recommended distributors for this material

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