

# SUPREME HIPS SH400M

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

High Impact Polystyrene (HIPS)

Characteristics:

High Gloss

Medium Flow

Good Balance of Toughness & Strength

Processing:

Molding

Applications:

Air conditioner & cooler grills, refrigerator components

Toys, camera parts for low end models, household articles

Ball pen barrels, novelties, stationary items

Washing machines & small appliances

General Information			
Features	Food Contact Acceptable		
	Good Strength		
	Good Toughness		
	High Gloss		
	High Impact Resistance		
	Medium Flow		
Uses	Appliance Components		
	Appliances		
	Camera Applications		
	Household Goods		
	Stationary Supplies		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	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> (23°C, 3.20 mm, Injection Molded)	29.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 23°C, 3.20 mm, Injection Molded)	20	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	2000	MPa	ASTM D790

Flexural Strength (23°C, 3.20 mm, Injection Molded)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	79.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°C	ASTM D1525 <sup>3</sup>
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°, 3200 µm, Injection Molded)	92		ASTM D523
Injection	Nominal Value	Unit	
Processing (Melt) Temp	195 to 260	°C	
Mold Temperature	50.0 to 60.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

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#### Recommended distributors for this material

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