

# SUPREME HIPS SH825

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

High Impact Polystyrene (HIPS)  
Characteristics:  
Good Flow Properties  
Very Good Stiffness  
High Heat Grade  
Processing:  
Molding  
Applications:  
Home appliances, lamp shades, wall clocks  
Gift sets, picnic boxes  
Air cooler, watch cases

General Information			
Features	Food Contact Acceptable		
	Good Flow		
	High Heat Resistance		
	High Impact Resistance		
	High Stiffness		
Uses	Appliances		
	Food Containers		
	Household Goods		
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)	7.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (23°C, 3.20 mm, Injection Molded)	24.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 23°C, 3.20 mm, Injection Molded)	45	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	2250	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)	77.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°C	ASTM D1525 <sup>3</sup>
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	40.0 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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