

# SUPREME HIPS SH 850

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME HIPS SH 850 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 850 include consumer goods, caps/lids/closures, food contact applications and kitchenware. Characteristics include:  
Food Contact Acceptable  
Good Processability  
Impact Resistant

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Ultra High Impact Resistance		
Uses	Caps		
	Cosmetics		
	Cups		
	Lids		
	Luggage		
	Toys		
	Vials		
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)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	26.5	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	50	%	ASTM D638
Flexural Modulus (3.20 mm)	1910	MPa	ASTM D790
Flexural Strength (Yield, 3.20 mm)	36.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	85.0	°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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