

SUPREME HIPS SH 731E
High Impact Polystyrene
 Supreme Petrochem Ltd. Web



General			
Material Status	• Commercial: Discontinued		
Search for UL Yellow Card	• Supreme Petrochem Ltd.		
Availability	• Africa & Middle East	• Europe	
	• Asia Pacific	• North America	
Features	• Food Contact Acceptable	• High Gloss	
	• Good Impact Resistance	• Medium Flow	
Uses	• Appliances	• Cups	• Thermoformed Containers
	• Camera Applications	• Medical/Healthcare Applications	
	• Containers	• Packaging	
Agency Ratings	• FDA 21 CFR 177.1640		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	• Thermoforming
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	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 ¹ (Yield)	24.5	MPa	ASTM D638
Tensile Elongation ¹ (Yield)	50	%	ASTM D638
Flexural Modulus (3.20 mm)	2060	MPa	ASTM D790
Flexural Strength (Yield, 3.20 mm)	41.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	83.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525 ²

Notes

¹ 50 mm/min

² Rate B (120°C/h)



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Revision History

Added to Prospector: November, 1999
 Last Updated: 11/11/2008