

SUPREME HIPS SH 731E

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

SUPREME HIPS SH 731E is a High Impact Polystyrene product. It can be processed by extrusion, injection molding, or thermoforming and is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of SUPREME HIPS SH 731E include containers, appliances, electrical/electronic applications, food contact applications and kitchenware.

Characteristics include:

Food Contact Acceptable

High Gloss

Impact Resistant

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	High Gloss		
	Medium Flow		
Uses	Appliances		
	Camera Applications		
	Containers		
	Cups		
	Medical/Healthcare Applications		
	Packaging		
	Thermoformed Containers		
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 ² (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 ³

NOTE

1. 50 mm/min
2. 50 mm/min
3. Rate B (120°C/h)

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