# SUPREME HIPS SH731

## High Impact Polystyrene

## Supreme Petrochem Ltd.

#### Message:

High Impact Polystyrene (HIPS) Characteristics: Medium Flow High Impact Excellent Formability Low Temperature Toughness Processing: Molding Extrusion & Forming Applications: Thermoformed food & non food packaging, extruded profile Plates, dishes, disposable cups, deep drawn thermoformed containers Also suitable for audio/video cabinets, business machines, ball pen toys

General Information			
UL YellowCard	E185934-226963		
Features	Disposable		
	Food Contact Acceptable		
	Good Moldability		
	High Impact Resistance		
	Low Temperature Toughness		
	Medium Flow		
Uses	Cups		
	Industrial Applications		
	Kitchenware		
	Packaging		
	Profiles		
	Thermoformed Containers		
Agency Ratings	FDA 21 CFR 177.1640		
UL File Number	E185934		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (23°C, 3.20 mm, Injection Molded)	28.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 23°C, 3.20 mm, Injection Molded)	50	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1900	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	44.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	82.0	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525 <sup>3</sup>
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	НВ		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	40.0 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 260	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

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# Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

