

SUPREME HIPS SH2157

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

High Impact Polystyrene (HIPS)
Characteristics:
Excellent ESCR Properties against Fatty Food & Blowing Agent like F11, HCFC 141 B & Cyclopentane
Good Formability
Matte Finish
Processing:
Extrusion & Forming
Application:
Refrigerator door & cabinet liners
Dairy container
Ice cream cups, plates and bowls.
Frozen food packaging

General Information	
UL YellowCard	E185934-226962
Features	Good Moldability
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	Non-Smooth Surface Finish
Uses	Cups
	Food Containers
	Food Packaging
	Kitchenware
	Liners
UL File Number	E185934
Forms	Pellets
Processing Method	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	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 (23°C, 3.20 mm, Injection Molded)	20.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.20 mm, Injection Molded)	50	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm, Injection Molded)	1500	MPa	ASTM D790

Flexural Strength (23°C, 3.20 mm, Injection Molded)	35.0	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)	76.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
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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