

SUPREME HIPS SH03

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

High Impact Polystyrene (HIPS)

Characteristics:

High Flow

Excellent Toughness

Excellent Mold Release Behavior

Processing:

Molding

Applications:

Gas assisted injection molding of TV cabinets

Suitable for thin walled parts, AC grills, toys computer accessories, refrigerator components

Base material for compounding

General Information	
UL YellowCard	E185934-226961
Additive	Mold Release
Features	Food Contact Acceptable
	Good Mold Release
	High Flow
	High Impact Resistance
Uses	Compounding
	Computer Components
	Thin-walled Parts
	Toys
Agency Ratings	FDA 21 CFR 177.1640
UL File Number	E189534
Forms	Pellets
Processing Method	Compounding
	Injection Molding

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)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.20 mm, Injection Molded)	24.0	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)	1800	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm, Injection Molded)	37.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	100	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	97.0	°C	ASTM D1525 ³
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	40.0 to 60.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Rate B (120°C/h), Loading 1 (10 N)		

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