

SUPREME HIPS SH 2114

High Impact Polystyrene

Supreme Petrochem Ltd.

Message:

SH2114 is a high heat, high toughness HIPS grade for extruded sheets and thermoformed deep draw industrial applications.

General Information			
Features	Good Processability		
	High Heat Resistance		
	High Impact Resistance		
	Ultra High Toughness		
Uses	Blending		
	Cosmetics		
	Cups		
	Footwear		
	Industrial Applications		
	Lids		
	Luggage		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	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)	2.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	29.4	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus (3.20 mm)	1810	MPa	ASTM D790
Flexural Strength (3.20 mm)	49.0	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	105	°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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