

Diamond HI-851 (H.G.)

High Impact Polystyrene

Pak Petrochemical Industries (Pvt.) Ltd.

Message:

Diamond HI-851(H.G) is a High Impact Polystyrene grade with Opaque & Glossy surface. It gives excellent mechanical and heat resistance properties while providing with easy process ability and extrusion applications.

Characteristics:

High impact, Good gloss,

Low volatility

Brilliant properties.

Applications:

Drinking cups, Refrigerator components, Cotton buds, Extrusion & Blow molding grade.

General Information			
Features	Good Gloss		
	Impact resistance, high		
	Recyclable materials		
	Workability, good		
	Heat resistance, high		
	Compliance of Food Exposure		
Uses	Cup		
	Home appliance components		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Glossy Finish		
	Opacity		
Forms	Particles		
Processing Method	Blow molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Water Absorption			
23°C, 24 hr, 50% RH	< 0.10	%	
Balance	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.5	MPa	ASTM D638
Fracture	24.5	MPa	ASTM D638

Tensile Elongation (Break)	60	%	ASTM D638
Flexural Strength	44.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	140	J/m	ASTM D256
Dart Drop Impact	14.7	J	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gardner Gloss	80		ASTM D523
Extrusion	Nominal Value	Unit	
Melt Temperature	< 260	°C	
NOTE			
1.	23°C		

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