

Diamond HIPS HI-851

High Impact Polystyrene

Diamond Polystyrene

Message:

DIAMOND HI-850 & HI-851 are General Purposes High Impact Polystyrene having good gloss and good dimension stability during Molding.
HI-851 Easy flow High Impact Polystyrene designed for extrusion.

General Information	
Features	General Purpose
	Good Dimensional Stability
	Good Flow
	High Gloss
	High Impact Resistance
Uses	Appliance Components
	Cups
	Electrical/Electronic Applications
	General Purpose
Forms	Pellets
Processing Method	Blow Molding
	Extrusion

Physical	Nominal Value	Unit	
Specific Gravity	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (230°C/1.2 kg)	3.0	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.6	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	39.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Gardner Impact	10.8	J	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	94.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525

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