

# Diamond HIPS HI-850

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-850 Easy flow High Impact Polystyrene designed for injection molding.

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	Injection Molding		
Physical	Nominal Value	Unit	
Specific Gravity	1.04	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (230°C/1.2 kg)	6.0	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	21.6	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	31.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Gardner Impact	11.3	J	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	92.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°C	ASTM D1525

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