

# Diamond HIPS HI-860

High Impact Polystyrene

Diamond Polystyrene

## Message:

DIAMOND HI-860 & HI-861 are High Impact Polystyrene having good gloss and stress cracking resistant (Refrigeration Grade). HI-860 is an easy flow material designed for injection molding and HI-861 is also an easy flow Freon Resistant, material designed for Extrusion Molding.

General Information			
Features	Good Flow		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	High Impact Resistance		
Uses	Appliance Components		
	Low Temperature Applications		
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)	5.0	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	16.7	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	29.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	150	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)	90.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525

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