

Osterlene® HI-8-2-hg

High Impact Polystyrene

Osterman & Company

Message:

HI-8-2-hg is the high impact polystyrene for injection molding.

The polymer's ability to be molded on fast cycles with minimal stresses results in outstanding impact retention.

Applications such as appliance housings, housewares, toys, and structural foam require this polymer to produce consistent parts.

Advanced rubber particle size control makes HI-8-2-hg the choice for all high gloss applications.

General Information			
Features	Fast Molding Cycle High Gloss High Impact Resistance		
Uses	Household Goods Structural Foam Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ASTM D638
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	46.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Gardner Impact	14.1	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	91.1	°C	ASTM D648
Vicat Softening Temperature	96.1	°C	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°)	88		ASTM D523

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