

Osterlene® HI-13-2.1

High Impact Polystyrene

Osterman & Company

Message:

HI-13-2.1 is a high melt flow, high impact polystyrene specially designed for hard to fill injection molding applications. The material is targeted for large parts, thin wall parts or molds with complex runner and gate systems. The high flow HI-13-2.1 material aids production of stress free parts.

General Information			
Features	High Flow		
	High Impact Resistance		
Uses	Thin-walled Parts		
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)	13	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength (Yield)	22.1	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	39.3	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)	84.4	°C	ASTM D648
Vicat Softening Temperature	91.7	°C	ASTM D1525
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Optical	Nominal Value	Test Method	
Gardner Gloss (60°)	92	ASTM D523	

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Recommended distributors for this material

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