

Osterlene® HI-8-2.3

High Impact Polystyrene

Osterman & Company

Message:

HI-8-2.3 is a Injection Molding grade designed to provide good processability while maintaining a fine balance of mechanical properties. With HI-8-2.3's combination of processability and high impact strength, it is suitable for a wide variety of applications such as office accessories, housewares, appliance parts and electrical/electronic housings.

General Information			
Features	Impact resistance, high		
	Workability, good		
	Compliance of Food Exposure		
Uses	Electrical/Electronic Applications		
	Electrical housing		
	Non-specific food applications		
	Home appliance components		
	Business equipment		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
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
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	55		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2140	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	21.0	MPa	ASTM D638
Fracture	20.0	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus ¹	1650	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Dart Drop Impact (23°C)	31.6	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	79.4	°C	ASTM D648
Vicat Softening Temperature	97.2	°C	ASTM D1525
Flammability	Nominal Value		Test Method

Flame Rating	HB	UL 94
Optical	Nominal Value	Test Method
Gardner Gloss (60°)	45	ASTM D523
Additional Information		
HI-8.0-2.3z has a CSA 0.6HB flame rating.		
NOTE		
1.	Method I (three-point load)	

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