

# Osterlene® HI-9-2.6-stg

High Impact Polystyrene

Osterman & Company

Message:

HI-9-2.6-stg is designed for injection molding applications requiring superior toughness. This polymer is a super high impact polystyrene with excellent gloss and falling dart properties. The impact and gloss levels achievable with HI-9-2.6-stg allow design engineers to use this polymer instead of more expensive engineering polymers.

General Information			
Features	High Gloss		
	High Impact Resistance		
	Ultra High Toughness		
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)	9.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength (Yield)	19.3	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790
Flexural Strength	38.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	140	J/m	ASTM D256
Gardner Impact	15.8	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	93.9	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	86		ASTM D523

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