

Osterlene® HIPS1302

High Impact Polystyrene

Osterman & Company

Message:

HIPS1302 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 of HIPS1302 aids in the production of stress free parts.

General Information			
Features	Impact resistance, high		
	High liquidity		
Agency Ratings	FDA 21 CFR 177.1640		
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
Instrumented Dart 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
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	92		ASTM D523

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Recommended distributors for this material

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