

# Osterlene® HIPS0802

High Impact Polystyrene

Osterman & Company

Message:

HIPS0802 is a 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.

General Information			
Features	Impact resistance, high		
Uses	Electrical appliances		
	Household goods		
	Toys		
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)	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
Instrumented Dart 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
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	88		ASTM D523

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