

# Osterlene® HIPS0302

High Impact Polystyrene

Osterman & Company

Message:

HIPS0302 is a high impact polystyrene designed specifically for extrusion/thermoforming. The polymer's balanced properties and processing characteristics make it especially suitable for industrial packaging deep draw thermoforming and custom multi-layer sheet extrusion. This popular resin has established itself as The standard extrusion grade high impact polystyrene.

General Information			
Features	Impact resistance, high		
Uses	Sheet		
Agency Ratings	FDA 21 CFR 177.1640		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength (Yield)	24.1	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	47.6	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)	93.9	°C	ASTM D648
Vicat Softening Temperature	98.9	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	70		ASTM D523

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