

Osterlene® HE-3.8-2.9

High Impact Polystyrene

Osterman & Company

Message:

HE-3.8-2.9 is a high impact polystyrene designed for extrusion/thermoforming applications that require exceptional resistance to attack from fats and oils. This material is used for lids and containers for salad dressings, gravies, and high fat dairy products.

General Information	
Features	Food Contact Acceptable High Impact Resistance Oil Resistant
Uses	Containers Lids Non-specific Food Applications
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.8	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1590	MPa	ASTM D638
Tensile Strength (Yield)	17.2	MPa	ASTM D638
Tensile Elongation (Break)	65	%	ASTM D638
Flexural Modulus	1650	MPa	ASTM D790
Flexural Strength	34.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	150	J/m	ASTM D256
Gardner Impact	13.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	94.4	°C	ASTM D648
Vicat Softening Temperature	98.3	°C	ASTM D1525
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Optical	Nominal Value	Test Method	
Gardner Gloss (60°)	60	ASTM D523	

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Recommended distributors for this material

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