

Osterlene® HE-3.5-3-stg

High Impact Polystyrene

Osterman & Company

Message:

HE-3.5-3-stg is a super high impact polystyrene designed for applications requiring extra toughness without sacrificing mechanical properties.

It has excellent falling dart impact which, combined with the high gloss, makes it a candidate for some ABS applications.

This polymer is superior for co-extrusion of high gloss sheet.

HE-3.5-3-stg has unique capabilities for deepdraw thermoforming with good side wall distribution.

General Information	
Features	Good Toughness
	High Gloss
	High Impact Resistance
Uses	Sheet
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Coextrusion
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790
Flexural Strength	43.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256
Gardner Impact	18.1	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	95.0	°C	ASTM D1525
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Optical	Nominal Value	Test Method	
Gardner Gloss (60°)	88	ASTM D523	

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