

# Osterlene® HM0550

High Density (HMW) Polyethylene

Osterman & Company

## Message:

HM0550 is a high molecular weight high density polyethylene (HMW-HDPE) for film extrusion. It's a bi-modal resin designed for high dart impact strength and good processing characteristics. This resin is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Suggested applications for HM0550 include heavy duty bags, industrial liners, t-shirt bags and trash can liners.

Osterlene HM0550 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply. Contact your Osterman sales representative for more information.

General Information			
Features	Impact resistance, high		
	Workability, good		
Uses	Films		
	Lining		
	Industrial application		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.949	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg <sup>1</sup>	0.040	g/10 min	ASTM D1238
190°C/21.6 kg <sup>2</sup>	8.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD: Fracture	62.1	MPa	ASTM D882
TD: Fracture	28.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	300	%	ASTM D882
TD: Fracture	410	%	ASTM D882
Dart Drop Impact	210	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	14	g	ASTM D1922
TD	25	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	131	°C	DSC

## NOTE

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| 1. | Condition E |
| 2. | Condition F |

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## Recommended distributors for this material

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