

# Osterlene® HB0554

High Density Polyethylene

Osterman & Company

Message:

HB0554 is a high molecular weight, high-density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity.

Applications for HB0554 include drums, food packaging, heavy gauge sheet, large part blow molding, and thermoformed parts.

Osterlene HB0554 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	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	High density		
	Copolymer		
	Impact resistance, high		
Uses	Sheet		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	< 0.10	g/10 min	ASTM D1238
190°C/2.16 kg <sup>1</sup>	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.3	MPa	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (23°C)	357	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -85.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525
Flammability	Nominal Value		Test Method

Flame Rating	HB	UL 94
NOTE		
1.	High Load	

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#### Recommended distributors for this material

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