

HB0554

HLMI 5.5

Density 0.954

Material Properties

Properties	Test Method	Unit	Typical Value
High Load Melt Index (190°C/2.16kg)	D 1238	g/10 min	5.5
Melt Index (190°C/2.16kg)	D 1238	g/10 min	<0.10
Density	D 4883	g/cm ³	0.954
Thermal			
Brittleness Temperature	D 746	°C (°F)	<-85 (<-121)
Vicat Softening Temperature	D 1525	°C (°F)	126 (259)
Molded Properties			
Tensile Strength @ Yield	D 638	psi (MPa)	4,100 (28)
Flexural Modulus	D 790	psi (MPa)	200,000 (1,400)
Environmental Stress Crack Resistance (ESCR), 100% Igepal		hr.	>1,000
Impact			
Tensile Impact Strength (73°F (23°C))	D 1822	ft-lb/in ² (kJ/m ²)	170 (360)

- All molded properties were measured on compression molded plaques.
- Flexural modulus tested using Procedure A (1"x3"x0.125"), tangent calculation.
- ESCR tested using Condition B, 100% Igepal.
- HB0554 has UL recognition. Contact your Osterman representative for details.

- 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.