

Osterlene® HB1049

Extra High Molecular Weight Polyethylene

Osterman & Company

Message:

HB1049 is an extra high molecular weight hexene copolymer. It has good melt strength, good rigidity, excellent stress crack resistance and excellent impact strength even at low temperatures.

HB1049 is excellent for large part molding applications.

Recommended applications for HB1049 include blow molding large shipping containers, agricultural chemical tanks and gasoline tanks. Extruded applications would include pallets, cattle feeders, large formed parts and boats.

Osterlene HB1049 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	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Good melt strength		
	Low temperature impact resistance		
Uses	Agricultural application		
	Container		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) ¹ (190°C/21.6 kg)	10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
10% Igepal, F50	> 600	hr	ASTM D1693B
100% Igepal, F50	> 600	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 50.8 mm)	24.8	MPa	ASTM D638
Tensile Elongation ³ (Break, 50.8 mm)	> 600	%	ASTM D638
Flexural Modulus	1170	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -91.0	°C	ASTM D746
NOTE			
1.	Condition F		

2.	Type 4, 50mm/min
3.	Type 4, 50mm/min

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