

# Premier HD10H49

High Density Polyethylene

Premier Polymers, LLC.

## Message:

Premier HD10H49 is a high molecular weight, high density polyethylene copolymer. Suitable for blow molding applications requiring high ESCR, impact strength, and rigidity. Meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Density		
	High Molecular Weight		
	High Rigidity		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	< 0.10	g/10 min	
190°C/21.6 kg	10	g/10 min	
Environmental Stress-Cracking Resistance			
10% Igepal	> 600	hr	ASTM D1693B
100% Igepal	> 600	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.5	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790

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