



VinPol™ HD12H49

High Density Polyethylene

HLMI: 12

Density: 0.949

VINPOL HD12H49 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.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.16 Kg at 190°C 21.6 Kg at 190°C (HL)	<0.1 12	g/10 min g/10 min	ASTM D-1238 ASTM D-1238
Density	0.949	g/cm ³	ASTM D-4883
Tensile Strength at Yield	3700	Psi	ASTM D-638
Elongation at Break	>600	%	ASTM D-638
Flexural Modulus	180,000	Psi	ASTM D-790
ESCR, Condition A, 100% Igepal Condition B, 10% Igepal	>600 >600	Hrs Hrs	ASTM D-1693 ASTM D-1693

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.

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