

VINPOL™ HD000649

High Density Polyethylene

Melt Flow: 0.06

Density: 0.949

VINPOL HD000649 is a high molecular weight High Density Polyethylene blown film grade resin. This product exhibits excellent toughness and impact performance as well as high stiffness. It is recommended for films less than 0.5 mil in thickness. This product contains no slip or antiblock. Applications include blown film produce bags, grocery sacks, merchandise bags, institutional trash can liners and consumer trash bags.

*Resin Property	Typical Value	Units	Test Method
Melt Index, 190°C/2.16kg	0.06	g/10 min	Supplier Method
Density	0.949	g/cm ³	Supplier Method
Peak Melting Temperature	266 (130)	°F (°C)	Supplier Method
Tensile Strength at Yield (MD/TD)	5,300 (36)/4,600 (31)	psi (MPa)	ASTM D-882
Tensile Strength at Break (MD/TD)	13,000 (90)/10,000 (70)	psi (MPa)	ASTM D-882
Tensile Elongation at Break (MD/TD)	340/430	%	ASTM D-882
Secant Modulus, 1% Secant (MD/TD)	160,000 (1,100)/160,000 (1,100)	psi (MPa)	ASTM D-882
Dart Drop Impact	230	g	ASTM D-1709A
Elmendorf Tear Strength (MD/TD)	7/38	g	ASTM D-1922

*For film properties: Film (0.5 mil/12/7 microns) made from resin on a 1.97 in. (50mm) blown film line with a 4:1 BUR, 7.5:1 stalk to die diameter ratio, a melt temperature of 370°F (188°C), a 59 mil (1.5mm) die gap at a rate of 10.75 lbs/hr/in die circumference.

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.