

VINPOL™ LB02018CE

Linear Low Density Polyethylene

Melt Index: 2.0

Density: 0.918

VINPOL LB02018CE is an ethylene 1-butene linear low density polyethylene resin designed for the blown film process offering high gloss, excellent draw down, and very good tensile and toughness properties. This product is formulated with medium level slip and antiblock, without processing aid. It 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	2.0	g/10 min	ASTM D-1238
Density	0.918	g/cm ³	ASTM D-1505
Tensile Strength at Yield, MD/TD	1,300/1,400 (8.7/9.8)	psi (MPa)	ASTM D-882
Tensile Strength at Break, MD/TD	5,200/3,800 (36/27)	psi (MPa)	ASTM D-882
Elongation at Break, MD/TD	620/770	%	ASTM D-882
1% Secant Modulus, MD/TD	25,000/31,000 (170/210)	psi (MPa)	ASTM D-822
Dart Drop Impact	<60	g/mil	ASTM D-1709
Elmendorf Tear Strength, MD/TD	110/390	g/mil	ASTM D-1922
Puncture Force	5 (21)	lbf (N)	Supplier Method
Puncture Energy	7.1 (0.8)	in-lb (J)	Supplier Method
Gloss (45°)	28	-	ASTM D-2457
Haze	23	%	ASTM D-1003
Peak Melting Temperature	253 (123)	°F (°C)	Supplier Method

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 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.