



VINPOL™ LS00917DE

Linear Low Density Polyethylene

Melt Index: 0.9

Density: 0.917

VINPOL LS00917DE is a high strength ethylene 1-hexene linear low density polyethylene resin suitable for applications requiring high strength and tear resistance for maximum downgauging potential such as ice bags, trash bags, and trash can liners. This product is formulated with medium level slip and high level 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	0.9	g/10 min	ASTM D-1238
Density	0.917	g/cm ³	ASTM D-1505
Tensile Strength at Yield, MD/TD	1,200/1,200 (8.6/8.6)	psi (MPa)	ASTM D-882
Tensile Strength at Break, MD/TD	8,100/6,800 (60/47)	psi (MPa)	ASTM D-882
Elongation at Break, MD/TD	550/710	%	ASTM D-882
1% Secant Modulus, MD/TD	23,000/24,000 (160/170)	psi (MPa)	ASTM D-822
Dart Drop Impact	580	g/mil	ASTM D-1709
Elmendorf Tear Strength, MD/TD	390/410	g/mil	ASTM D-1922
Puncture Force	8 (36)	lbf (N)	Supplier Method
Puncture Energy	22 (2.5)	in-lb (J)	Supplier Method
Gloss (45°)	33	-	ASTM D-2457
Haze	25	%	ASTM D-1003
Peak Melting Temperature	255 (124)	°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.

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Rev. Date 1/22/2024

