



VINPOL™ LO01012

Ultra Low Density Polyethylene

Melt Index: 1.0

Density: 0.912

VINPOL LO01012 is an octene ultra low density polyethylene resin, designed for food packaging applications requiring excellent toughness, optical and sealing properties along with good processability. It contains no slip, antiblock or processing aid. This resin is compliant with U.S. Food and Drug Administration FCN 424 and U.S. FDA-DMF, Canadian HPFB No Objection (with Limitations), and EU No 10/2011.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.16 Kg at 190 °C	1.0	g/10 min	ASTM D-1238
Density	0.912	g/cm ³	ASTM D-792
Tensile Strength at Yield, 1.0 mil (MD/TD)	1,460(10)/1,310(9)	psi (MPa)	ASTM D-882
Tensile Strength at Break, 1.0 mil (MD/TD)	5,580(38.5)/4,990(34.4)	psi (MPa)	ASTM D-882
2% Secant Modulus, 1.0 mil (MD/TD)	20,000(138)/20,500(141)	psi (MPa)	ASTM D-882
Tensile Elongation @ Break, 1.0 mil (MD/TD)	520/710	%	ASTM D-882
Film Puncture Resistance, 1.0 mil	380 (31.4)	ft-lb/in ³ (J/cm ³)	Supplier Method
Dart Drop Impact, 1.0 mil	870	g	ASTM D-1709B
Elmendorf Tear Strength, 1.0 mil (MD/TD)	370/590	g	ASTM D-1922
Vicat Softening Temperature	199 (92.8)	°F (°C)	ASTM D-1525
Melting Temperature	253 (123)	°F (°C)	Supplier Method
Gloss, 45°, 1.0 mil	33	-	ASTM D-2457
Haze (Internal), 1.0 mil	1.70	%	ASTM D-1003

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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