



VINPOL™ LD002519AE

Low Density Polyethylene

Melt Index: 0.25

Density: 0.919

VINPOL LD002519AE is a low density polyethylene, fractional melt blown film resin suitable for heavy duty film requiring high strength and processability. This grade contains 4000 ppm of antiblock additive. Typical applications include agricultural film, construction film, zipper bag film, collation shrink film, pallet shrink film, and for use as a blend partner. This product 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	0.25	g/10 min	ASTM D-1238
Density	0.919	g/cm3	ASTM D-1505
Peak Melting Temperature	230 (110)	°F (°C)	Supplier Method
Vicat Softening Temperature	194 (90)	°F (°C)	Supplier Method
Tensile Strength at Yield (MD/TD)	1,600 (11)/1,500 (10)	psi (MPa)	ASTM D-882
Tensile Strength at Break (MD/TD)	3,600 (25)/3,100 (21)	psi (MPa)	ASTM D-882
Elongation at Break (MD/TD)	100/540	%	ASTM D-882
Secant Modulus (MD/TD)	26,000 (180) /35,000 (240)	psi (MPa)	ASTM D-882
Elmendorf Tear Strength (MD/TD)	340/120	g	ASTM D-1922
Dart Drop Impact	180	g	ASTM D-1709A
Puncture Force	12 (52)	lbf (N)	Supplier Method
Puncture Energy	6.2 (0.70)	in-lb (J)	Supplier Method
Gloss, 45°	35	-	ASTM D-2457
Haze	20	%	ASTM D-1003

*Film properties measured on 2.0 mil (50.8 micron) film made on a 2.5 in (63.5 mm) blown film line with a 2.5:1 BUR, a melt temperature of 360-380°F (182-193°C), a 30 mil (0.76mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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.

Vinmar Polymers America, LLC / 16825 Northchase Drive, Suite 1400, Houston, TX 77060
Phone: 281-902-0900 Fax: 281-260-8096

Rev. Date 09/07/2022

