



VINPOL™ LD002521 Series

Low Density Polyethylene

Melt Index: 0.25

Density: 0.918/0.921

VINPOL LD002521 is a low density homopolymer used for heavy duty film applications requiring high puncture resistance and impact properties. Applications include fertilizer, peat moss, decorative stone and agricultural and construction materials. This resin also has excellent heat shrink properties. The base resin in this product meets U.S. Food and Drug Administration as specified in 21 CFR 177.1520 (a)(2)(i) and (c)2.2. It also meets FDA criteria in 21 CFR 177.1520 for food contact applications including cooking, listed under conditions of use A through H in 21 CFR 176.170(c), Table 2, and can be used in contact with all food types as listed in 21 CFR 176.170(c), Table 1.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.16 Kg at 190°C	0.25	g/10 min	ASTM D-1238
Density	0.918 (base)/ 0.921 (with antiblock)	g/cm ³	ASTM D-1505
Tensile Strength at Break (MD/TD)	3000 (21)/2800 (19)	psi (MPa)	ASTM D-882
Tensile Elongation at Break (MD/TD)	300/500	%	ASTM D-882
1% Secant Modulus (MD/TD)	24000 (165)/27000 (186)	psi (MPa)	ASTM D-882
Elmendorf Tear Strength (MD/TD)	220/200	g	ASTM D-1922
Dart Drop Impact, F ₅₀	220	g	ASTM D-1709
Hardness	50	Shore D	ASTM D-2240
Vicat Softening Point	194 (90)	°F (°C)	ASTM D-1525
Low Temperature Brittleness, F ₅₀	< -105 (< -76)	°F (°C)	ASTM D-746

<i>Additive \ Suffix</i>	-A
<i>Antiblock</i>	High
<i>Slip</i>	-

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.