



VinPol™ HD00445

High Density Polyethylene

Melt Index: 0.45

Density: 0.945

VINPOL HD00445 is a medium molecular weight high density copolymer with a narrow molecular weight distribution with good organoleptic properties. This product has very low gel content and is designed for blown film, monofilament, slittape and high-speed orientation processes. Typical applications include specialty films, bags and pouches, raffia/tapes/strapping, packaging of agricultural products, protective netting for agricultural and building markets as well as netting for food applications.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.16 Kg at 190°C	0.45	g/10 min	ASTM D-1238
Melt Index, 5 Kg at 190°C	1.75	g/10 min	ASTM D-1238
Melt Index, 21.6 Kg at 190°C	20	g/10 min	ASTM D-1238
Density	0.945	g/cc	ASTM D-1505
*Tensile Strength at Break, MD	8,600 (59)	psi (MPa)	ASTM D-882
*Tensile Yield at Strength, MD	3,300 (23)	psi (MPa)	ASTM D-882
*Tensile Elongation at Break	750	%	ASTM D-882
*Secant Modulus, MD	99,400 (685)	psi (MPa)	ASTM D-882

**Data obtained from 2.0 mil film produced on a blown film line with a 60 mil die gap, 2.2:1 BUR, and 390-410°F (199-210°C) melt extrusion temperature.*

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.

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