



VINPOL™ HD32051
High Density Polyethylene

Melt Index: 33.0

Density: 0.950

VINPOL HD32051 is a narrow molecular weight hexene copolymer designed to maximize injection molding speed and productivity in thin wall articles. Lower processing temperatures enable production of products free of taste and odor for food and beverage packaging. 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	33.0	g/10 min	ASTM D-1238
Density	0.950	g/cm ³	ASTM D-1505
Tensile Strength at Yield	3,400 (24)	psi (MPa)	ASTM D-638
Elongation at Break	20	%	Supplier Method
Flexural Modulus, 1% Secant	170,000 (1,200)	psi (MPa)	ASTM D-790B
Flexural Modulus, 2% Secant	140,000 (1,000)	psi (MPa)	ASTM D-790B
Environmental Stress-Crack Resistance, 10% Igepal, F50	<1	hr	ASTM D-1693B
Notched Izod Impact, -40°F	0.42 (23)	ft-lb/in (J/m)	ASTM D-256
Peak Melting Temperature	265 (130)	°F (°C)	ASTM D-648
DTUL, 66 psi, Unannealed	161 (71)	°F (°C)	ASTM D-648B
DTUL, 264 psi, Unannealed	110 (43)	°F (°C)	ASTM D-3418

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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