



VINPOL™ HD40052

High Density Polyethylene

Melt Index: 40.0

Density: 0.952

VINPOL HD40052 is a high density polyethylene copolymer injection molding resin designed for toughness, good impact strength and processability. It offers excellent ESCR with good stiffness-toughness balance ideally recommended for applications requiring rugged physical performance and good impact, such as industrial components, industrial closures, automotive components, waste carts, and recreational vehicle components.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.16 Kg at 190°C	40.0	g/10 min	ASTM D-1238
Density	0.951	g/cm ³	ASTM D-1505
Tensile Strength at Yield	27.6 (4,000)	MPa (psi)	ASTM D-638
Tensile Elongation at Yield	5	%	ASTM D-638
Flexural Modulus, 2% Secant	1,100 (160,000)	MPa (psi)	ASTM D-790B
Hardness, Shore D	68		ASTM D-2240
Vicat Softening Point	120 (248)	°C (°F)	ASTM D-1525
Deflection Temperature Under Load, 66 psi	71 (160)	°C (°F)	ASTM D-648

Note: All properties were derived from compression molded specimens. Actual properties may vary depending on operating conditions and additive packages. Properties are not intended to be used as specifications.

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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Rev. Date 02/07/2022

