

## VINPOL™ HD07053

### High Density Polyethylene

MI: 7.0

Density: 0.953

**VINPOL HD07053** is a high density polyethylene copolymer injection molding resin designed for toughness and good impact strength. It offers excellent stiffness-toughness balance ideally recommended for applications requiring physical performance and a good impact. This resin complies with U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for food packaging, covering safe use of polyolefin articles intended for direct food contact.

Resin Property	Typical Value	Units	Test Method
Melt Index, 190 °C/2.16kg	7	g/10 min	ASTM D-1238
Density	0.953	g/cm <sup>3</sup>	ASTM D-1505
Tensile Strength @ Yield	3,900 (27)	Psi (MPa)	ASTM D-638
Tensile Elongation @ Yield	8	%	ASTM D-638
Flexural Modulus, 2% Secant	160,000 (1,100)	psi (MPa)	ASTM D-790
ESCR (100% Igepal, 50°C, F50)	20	hr	ASTM D-1693
Hardness, Shore D	68		ASTM D-2240
Vicat Softening Point	257 (125)	°F (°C)	ASTM D-1525
DTUL, 66psi	164 (73)	°F (°C)	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.

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