



VINPOL™ HD20053

High Density Polyethylene

MI: 20

Density: 0.953

VINPOL HD20053 is a high density polyethylene copolymer intended for use in a variety of injection molding applications. 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	20	g/10 min	ASTM D-1238
Density	0.953	g/cm ³	ASTM D-4883
Tensile Yield Strength (Pull Speed 50mm/min)	3,500 (24)	psi (MPa)	ASTM D-638
Flexural Modulus	156,000 (1,080)	psi (MPa)	ASTM D-790
Hardness, Shore D	65	D	ASTM D-2240
Vicat Softening Point	252 (122)	°F (°C)	ASTM D1525
ESCR (F50; Condition B, 100% Igepal	<10	hrs	ASTM D-1693

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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