



VinPol™ HD09054

High Density Polyethylene

MI: 9.0

Density: 0.954

VINPOL HD09054 is a high density polyethylene used for injection molding applications with excellent process-ability, an outstanding balance of stiffness, impact toughness, ESCR and good organoleptic and color properties. It is used in applications, such as food and industrial shipping pails, caps and closures, crates, bins and totes. This resin complies with U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520*.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.16 Kg at 190°C	9.0	g/10 min	ASTM D-1238
Density	0.954	g/cm ³	ASTM D-792
Tensile Strength at Yield, 50 mm/min pull speed.	4,000 (27)	psi (MPa)	ASTM D-638
Elongation at Break, 50 mm/min pull speed.	1,200	%	ASTM D-638
1% Flexural Secant Modulus	178,000 (1,227)	Psi (MPa)	ASTM D-790
ESCR, (F50), 100% Igepal, Cond. B	<10	Hrs	ASTM D-1693
Hardness, Shore D	66		ASTM D-2240
Vicat Softening Point	128	Deg. C	ASTM D-1525

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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