



VinPol™ HD02558

High Density Polyethylene

MI: 2.5

Density: 0.958

VINPOL HD02558 is an injection molding grade high density polyethylene homopolymer exhibiting warp resistance, excellent toughness, stiffness and color. This product has low odor and good processing stability. Typical applications include rigid packaging, safety equipment such as hard hats, hardware items and heavy wall molding parts

Resin Property	Typical Value	Units	Test Method
Melt Index, 190 °C/2.16kg	2.5	g/10 min	ASTM D-1238
Density, 23°C	0.958	g/cm ³	ASTM D-1505
Bulk Density	37-39	lb/ft ³	ASTM D-1895
Tensile Strength, 23°C, 50 mm/min @ Yield @ Break	4,120 (28) 4,510 (31)	Type IV specimen psi (MPa) psi (MPa)	ASTM D-638 ASTM D-638
Tensile Elongation, 23°C, 50 mm/min @ Yield @ Break	10 >1000	Type IV specimen % %	ASTM D-638 ASTM D-638
Tensile Modulus, 1% Secant, 50 mm/min,	116,000 (800)	psi (MPa)	ASTM D-638
Tensile Young's Modulus, 50 mm/min,	137,000 (945)	psi (MPa)	ASTM D-638
Flexural Modulus, 1% Secant, 12.5 mm/min	186,000 (1,280)	psi (MPa)	ASTM D-790
Flexural Modulus, 2% Secant, 12.5 mm/min	153,000 (1,050)	psi (MPa)	ASTM D-790
Flexural Young's Modulus	203,000 (1,400)	psi (MPa)	ASTM D-790
Notched Izod Impact Strength, 23°C	2.68 (143)	ft-lb/in (J/m)	ASTM D-256
Unnotched Impact Strength, -18°C	No Break	-	ASTM D-4812
Hardness	71	Shore D	ASTM D-2240
Vicat Softening Point	264 (129)	°F (°C)	ASTM D-1525
Low Temperature Brittleness, F ₅₀	<-105 (<-76)	°F (°C)	ASTM D-746
DTUL, 66psi, Unannealed	167 (75)	°F (°C)	ASTM D-648
Melting Temperature	271 (133)	°F (°C)	ASTM D-3418
Crystallization Temperature	241 (116)	°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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