

VINPOL™ HD08065 Series

High Density Polyethylene

Melt Index: 8.0

Density: 0.965

VINPOL HD08065 Series is a narrow molecular weight distribution homopolymer HDPE with high stiffness. It has good color, low odor and processing stability. Typical applications include cases, crates, trays, tote bins and open-head pails. It is available in barefoot and UV stabilized versions.

Resin Property	Typical Value	Units	Test Method
Melt Index, 190 °C/2.16kg	8	g/10 min	ASTM D-1238
Density	0.965	g/cm ³	ASTM D-1505
Bulk Density	33-37	lb/ft ³	ASTM D-1895
Tensile Strength, 23°C, 50 mm/min @ Yield @ Break	4,650 (32) 4,500 (31)	Type IV specimen Psi (MPa) Psi (MPa)	ASTM D-638 ASTM D-638
Tensile Elongation, 23°C, 50 mm/min @ Yield @ Break	7 16	Type IV specimen % %	ASTM D-638 ASTM D-638
Tensile Young's Modulus, 50 mm/min, Type I specimen	180,000 (1,240)	psi (MPa)	ASTM D-638
Flexural Modulus, 1% Secant, 0.5 in/min	240,000 (1,650)	psi (MPa)	ASTM D-790
Flexural Modulus, 2% Secant, 0.5 in/min	204,000 (1,410)	psi (MPa)	ASTM D-790
Flexural Young's Modulus, 2% Secant, 0.5 in/min	257,000 (1,770)	psi (MPa)	ASTM D-790
Notched Izod Impact Strength 23°C	0.68 (36)	ft-lb/in (J/m)	ASTM D-256
Hardness	73	Shore D	ASTM D-2240
Vicat Softening Point	267 (131)	°F (°C)	ASTM D-1525
Low Temperature Brittleness, F ₅₀	-99 (-73)	°F (°C)	ASTM D-746
DTUL, 66psi, Unannealed	181 (83)	°F (°C)	ASTM D-648
Melting Temperature	272 (133)	°F (°C)	ASTM D-3418
Crystallization Temperature	244 (118)	°F (°C)	ASTM D-3418

Suffix	-	-U
Additive	none	UV

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