

VINPOL™ HD09H52

High Density Polyethylene

HLMI: 9

Density: 0.952

VINPOL HD09H52 is a high molecular weight, hexene copolymer HDPE with a bi-modal molecular weight distribution. This resin is suitable for use in high toughness and high stiffness film applications, and also has excellent draw down and bubble stability for producing thin films at high rates. Typical applications include thin films for trash can liners, t-shirt, produce and merchandise bags and roll stock. It is also well positioned in thick films.

Resin Property	Typical Value	Units	Test Method
Melt Index, Condition E, 2.16 Kg at 190°C Condition F, 21.6 Kg at 190°C (HL)	0.06 9.0	g/10 min g/10 min	ASTM D-1238 ASTM D-1238
Density	0.952	g/cc	ASTM D-4883
Elmendorf Tear Strength, MD/TD	37/83	g	ASTM D-1922
Tensile Strength at Yield, MD/TD	4,500 (31)/3,900 (27)	psi (MPa)	ASTM D-882
Tensile Strength at Break, MD/TD	11,000 (76)/7,000 (48)	psi (MPa)	ASTM D-882
Elongation at Break, MD/TD	>250/>350	%	ASTM D-882
1% Secant Modulus, MD/TD	112,000 (772)/139,000 (958)	psi (MPa)	ASTM D-882
Dart Drop Impact	350	g	ASTM D-1709

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