



VinPol™ HD20052

High Density Polyethylene

MI: 20

Density: 0.952

VINPOL HD20052 is a high density polyethylene copolymer intended for use in a variety of injection molding applications. Meets 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, 190 °C/2.16 kg	20	g/10 min	ASTM D-1238
Density	0.952	g/cm ³	ASTM D-1505
Tensile Yield Strength, 2 in/min	3,900 (27)	psi (MPa)	ASTM D-638
Elongation at Break, 2 in/mm	300	%	ASTM D-638
Flexural Modulus, Tangent	175,000 (1,200)	psi (MPa)	ASTM D-790
ESCR; F50, Condition B, 100% Igepal	<10	hrs	ASTM D-1693
Hardness, Shore D	63	D	ASTM D-2240
Vicat Softening Point, Rate A	252 (122)	°F (°C)	ASTM D-1525
Brittleness Temperature, Type A	<-103 (<-75)	°F (°C)	ASTM D-746

