

## VINPOL™ HD20054

### High Density Polyethylene

MI: 20

Density: 0.954

**VINPOL HD20054** is a hexene based HDPE injection molding resin with a combination of good toughness, impact strength and fast cycle time. This product offers great stiffness-toughness balance, ideal for applications such as bins and crates, food packaging containers, protective caps, housewares and closures and dispensers. This product meets the 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, 2.16 Kg at 190 °C	20	g/10 min	ASTM D-1238
Density	0.954	g/cm <sup>3</sup>	ASTM D-1505
Tensile Yield Strength (Pull Speed 50mm/min)	4,000 (27.6)	psi (MPa)	ASTM D-638
Tensile Yield Elongation	6	%	ASTM D-638
Flexural Modulus, 2% Secant	170,000 (1,170)	psi (MPa)	ASTM D-790B
Hardness, Shore D	68	D	ASTM D-2240
Vicat Softening Point	252 (122)	°F (°C)	ASTM D1525
ESCR (F50; Condition B, 100% Igepal	3	hrs	ASTM D-1693

\*All properties were derived from compression molded specimens.

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