

VINPOL™ HD32051High Density Polyethylene

Melt Index: 33.0

Density: 0.950

VINPOL HD32051 is a narrow molecular weight hexene copolymer designed to maximize injection molding speed and productivity in thin wall articles. Lower processing temperatures enable production of products free of taste and odor for food and beverage packaging. This product meets all 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 | 33.0 | g/10 min | ASTM D-1238 |
| Density | 0.950 | g/cm ³ | ASTM D-1505 |
| Tensile Strength at Yield | 3,400 (24) | psi (MPa) | ASTM D-638 |
| Elongation at Break | 20 | % | Supplier Method |
| Flexural Modulus, 1% Secant | 170,000 (1,200) | psi (MPa) | ASTM D-790B |
| Flexural Modulus, 2% Secant | 140,000 (1,000) | psi (MPa) | ASTM D-790B |
| Environmental Stress-Crack Resistance, 10% Igepal, F50 | <1 | hr | ASTM D-1693B |
| Notched Izod Impact, -40°F | 0.42 (23) | ft-lb/in (J/m) | ASTM D-256 |
| Peak Melting Temperature | 265 (130) | °F (°C) | ASTM D-648 |
| DTUL, 66 psi, Unannealed | 161 (71) | °F (°C) | ASTM D-648B |
| DTUL, 264 psi, Unannealed | 110 (43) | °F (°C) | ASTM D-3418 |

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