



VINPOL™ HD00345

High Density Polyethylene

Melt Index: 0.35

Density: 0.945

VINPOL HD00345 is a high density polyethylene designed for blow molding applications requiring high stress crack resistance and impact performance. Typical applications include agricultural product containers, household and industrial chemical containers, and food and pharmaceutical packaging. This product has NSF and UL compliance (contact your VPA customer service representative for more information).

| *Resin Property | Typical Value | Units | Test Method |
|---|---------------|--|-------------|
| Melt Index, 2.16 Kg at 190°C | 0.35 | g/10 min | ASTM D-1238 |
| Density | 0.945 | g/cc | ASTM D-1505 |
| ESCR, 100% Igepal | 470 | hrs | ASTM D-1693 |
| Tensile Strength at Yield | 3,400 (23) | psi (MPa) | ASTM D-638 |
| Elongation at Break | 510 | % | ASTM D-790 |
| Flexural Modulus, 1% Secant | 120,000 (810) | psi (MPa) | ASTM D-790 |
| Charpy Notched Impact Strength, -4 °F (-20°C) | 2.0 (4.1) | ft-lb/in ² (kJ/m ²) | ISO 179 |
| Charpy Notched Impact Strength, 73 °F (23 °C) | 3.7 (7.7) | ft-lb/in ² (kJ/m ²) | ISO 179/1eA |
| Deflection Temperature Under Load, 66 psi | 143 (62) | °F (°C) | ASTM D-648 |
| Vicat Softening Temperature | 252 (122) | °F (°C) | ASTM D-1525 |

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