



## VINPOL™ HD10H50L

### High Density Polyethylene

MI: 0.06

Density: 0.949

**VINPOL HD10H50L** is a high molecular weight high density copolymer that offers broad, bi-modal molecular weight distribution, high stiffness and good heat seal strength. This product is used in bags and pouches, such as merchandise, produce and retail carryout bags, trash can liners, and specialty blown film.

| *Resin Property                     | Typical Value                   | Units             | Test Method |
|-------------------------------------|---------------------------------|-------------------|-------------|
| Melt Index, 190°C/2.16 kg condition | 0.06                            | g/10 min          | ASTM D-1238 |
| Density                             | 0.949                           | g/cm <sup>3</sup> | ASTM D-1505 |
| Tensile Strength at Yield (MD/TD)   | 5,000 (34.5)/4,200 (29)         | psi (MPa)         | ASTM D-638  |
| Tensile Strength at Break (MD/TD)   | 12,200 (84) / 8,300 (57)        | psi (MPa)         | ASTM D-882  |
| Tensile Elongation at Break (MD/TD) | 320/390                         | %                 | ASTM D-882  |
| Secant Modulus (MD/TD)              | 137,000 (945) / 152,000 (1,050) | psi (MPa)         | ASTM D-882  |
| Elmendorf Tear Strength (MD/TD)     | 11/76                           | g                 | ASTM D-1922 |
| Dart Drop Impact Strength, F50      | 340                             | g                 | ASTM D-1709 |

*\*Film data obtained from sample produced on an Alpine 200 mm line equipped with a three layer die (40/35/25) with three extruders (65mm/75mm/50mm), IBC, a 1.5mm die gap, neck height of 8XDD, 4:1 BUR, 0.8 mil thick film processed at 500 lbs/hr.*

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