



VINPOL™ HD09054

High Density Polyethylene

MI: 9.0

Density: 0.954

VINPOL HD09054 is a high density polyethylene used for injection molding applications with excellent process-ability, an outstanding balance of stiffness, impact toughness, ESCR and good organoleptic and color properties. It is used in applications, such as food and industrial shipping pails, caps and closures, crates, bins and totes. This resin complies with U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520*.

| Resin Property | Typical Value | Units | Test Method |
|--|-----------------|-------------------|-------------|
| Melt Index, 2.16 Kg at 190°C | 9.0 | g/10 min | ASTM D-1238 |
| Density | 0.954 | g/cm ³ | ASTM D-792 |
| Tensile Strength at Yield, 50 mm/min pull speed. | 4,000 (27) | psi (MPa) | ASTM D-638 |
| Elongation at Break, 50 mm/min pull speed. | 1,200 | % | ASTM D-638 |
| 1% Flexural Secant Modulus | 178,000 (1,227) | Psi (MPa) | ASTM D-790 |
| ESCR, (F50), 100% Igepal, Cond. B | <10 | Hrs | ASTM D-1693 |
| Hardness, Shore D | 66 | | ASTM D-2240 |
| Vicat Softening Point | 128 | Deg. C | ASTM D-1525 |

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