

## VINPOL™ HD40052

### High Density Polyethylene

Melt Index: 40.0

Density: 0.952

**VINPOL HD40052** is a high density polyethylene copolymer injection molding resin designed for toughness, good impact strength and processability. It offers excellent ESCR with good stiffness-toughness balance ideally recommended for applications requiring rugged physical performance and good impact, such as industrial components, industrial closures, automotive components, waste carts, and recreational vehicle components.

| Resin Property                            | Typical Value   | Units             | Test Method |
|---|-----------------|-------------------|-------------|
| Melt Index, 2.16 Kg at 190°C              | 40.0            | g/10 min          | ASTM D-1238 |
| Density                                   | 0.951           | g/cm <sup>3</sup> | ASTM D-1505 |
| Tensile Strength at Yield                 | 27.6 (4,000)    | MPa (psi)         | ASTM D-638  |
| Tensile Elongation at Yield               | 5               | %                 | ASTM D-638  |
| Flexural Modulus, 2% Secant               | 1,100 (160,000) | MPa (psi)         | ASTM D-790B |
| Hardness, Shore D                         | 68              |                   | ASTM D-2240 |
| Vicat Softening Point                     | 120 (248)       | °C (°F)           | ASTM D-1525 |
| Deflection Temperature Under Load, 66 psi | 71 (160)        | °C (°F)           | ASTM D-648  |

Note: All properties were derived from compression molded specimens. Actual properties may vary depending on operating conditions and additive packages. Properties are not intended to be used as specifications.

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