



### VINPOL™ HD07052

#### High Density Polyethylene

MI: 7.0

Density: 0.952

**VINPOL HD07052** is a high density polyethylene copolymer injection molding resin designed for toughness and good impact strength. It offers excellent stiffness-toughness balance ideally recommended for applications requiring physical performance and a good impact. This resin complies with U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for food packaging, covering safe use of polyolefin articles intended for direct food contact.

| Resin Property                | Typical Value   | Units             | Test Method |
|-------------------------------|-----------------|-------------------|-------------|
| Melt Index, 190 °C/2.16kg     | 7               | g/10 min          | ASTM D-1238 |
| Density                       | 0.952           | g/cm <sup>3</sup> | ASTM D-1505 |
| Tensile Strength @ Yield      | 3,900 (27)      | Psi (MPa)         | ASTM D-638  |
| Tensile Elongation @ Yield    | 8               | %                 | ASTM D-638  |
| Flexural Modulus, 2% Secant   | 160,000 (1,100) | psi (MPa)         | ASTM D-790  |
| ESCR (100% Igepal, 50°C, F50) | 20              | hr                | ASTM D-1693 |
| Hardness, Shore D             | 68              |                   | ASTM D-2240 |
| Vicat Softening Point         | 257 (125)       | °F (°C)           | ASTM D-1525 |
| DTUL, 66psi                   | 164 (73)        | °F (°C)           | 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.

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.

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