

## Technical Data Sheet : CertyForm H0201

### High Density Polyethylene

#### Product Description

The polymer grade is a high density polyethylene with an excellent combination of stiffness and ESCR and a good impact resistance. It is delivered in pellet form and contains antioxidants. Typical customer applications include jerry cans for the pharmaceutical/medical segment, for packaging's of dangerous goods and light weight jerry cans.

**Detailed information on health and safety, regulatory compliance status, and any supported, prohibited, or restricted applications is available in the Product Regulatory Summary (PRS) and the applicable Safety Data Sheet (SDS).**

#### General

|                           |                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Application</b>        | Healthcare Applications; Industrial Packaging; Jerry Cans                                                |
| <b>Market</b>             | Healthcare; Industrial Packaging                                                                         |
| <b>Processing Method</b>  | Extrusion Blow Molding                                                                                   |
| <b>Attribute</b>          | Antioxidant; Good Impact Resistance; High ESCR (Environmental Stress Cracking Resistance); High Rigidity |
| <b>Internal reference</b> | 1Q197, BEN3034                                                                                           |
| <b>Revision</b>           | Version 2.1 : September 4, 2026                                                                          |

| Properties                                                                                                     | Typical Value | Unit              | Method        |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------|---------------|
| <b>Polymer properties</b>                                                                                      |               |                   |               |
| Intrinsic Viscosity                                                                                            | 300           | ml/g              | ISO 1628-3    |
| Bulk Density                                                                                                   | >0.500        | g/cm <sup>3</sup> | ISO 60        |
| Density                                                                                                        | 0.954         | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Melt Flow Rate (MFR)</b>                                                                                    |               |                   |               |
| at 190 °C and 21.6 kg                                                                                          | 9.5           | g/10 min          | ISO 1133-1    |
| at 190 °C and 5.0 kg                                                                                           | 0.45          | g/10 min          | ISO 1133-1    |
| <b>Mechanical properties</b>                                                                                   |               |                   |               |
| Tensile Impact Strength (notched, type 1, method A, -30 °C)                                                    | 90            | kJ/m <sup>2</sup> | ISO 8256      |
| <b>Full-Notch Creep Test (FNCT) - Environmental stress cracking (ESC)</b><br>(6.0 Mpa, 6.6% Dehyton PL, 50 °C) | 180           | hr                | ISO 16770     |
| <b>Hardness</b>                                                                                                |               |                   |               |
| Shore Hardness, (Shore D)                                                                                      | 62            |                   | ISO 868       |
| <b>Tensile test</b>                                                                                            |               |                   |               |
| Strain at Yield                                                                                                | 10            | %                 | ISO 527-1, -2 |
| Stress at Yield                                                                                                | 27            | MPa               | ISO 527-1, -2 |
| Tensile Modulus                                                                                                | 1250          | MPa               | ISO 527-1, -2 |
| <b>Thermal properties</b>                                                                                      |               |                   |               |
| <b>Vicat Softening Temperature</b><br>(B/50)                                                                   | 80            | °C                | ISO 306       |
| <b>Processing Parameters</b>                                                                                   |               |                   |               |
| Melt Temperature                                                                                               | 180 - 200     | °C                |               |

#### Storage and Handling

The polymer grade is supplied in 25 kg bags, octabins, or bulk containers designed to protect the material from contamination. During storage, the resin should be protected from direct sunlight, temperatures above (<50 °C), and high atmospheric humidity. Prolonged exposure to sunlight, elevated temperatures, or high humidity may accelerate material degradation, reduce storage life, and adversely affect the quality of both the resin and its packaging. If the material is stored under conditions involving significant temperature fluctuations and high humidity, moisture may condense inside the packaging. In such cases, it is recommended to dry the resin before use and to ensure that the material remains completely dry to achieve optimal processing performance. Unfavorable storage conditions may also intensify the resin's slight characteristic odor.

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#### Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application. In cases where higher temperatures are required, please contact your appropriate technical contact for support.

#### Company Information

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