

## Technical Data Sheet : CertyForm P1141

### Polypropylene, Homopolymer

#### Product Description

The polymer grade is a nucleated polypropylene homopolymer for use in injection moulding applications. Contains anti-static additives. Exhibits good stiffness and flow properties, and it is typically used in pharma packaging and medical devices components.

**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>        | Caps & Closures (Healthcare); Healthcare Applications; Medical Devices                                  |
| <b>Market</b>             | Healthcare                                                                                              |
| <b>Processing Method</b>  | Injection Molding                                                                                       |
| <b>Attribute</b>          | Autoclavable; Contains Antistat; Ethylene Oxide Sterilisation; Medium Flow; Medium Stiffness; Nucleated |
| <b>Internal reference</b> | 1Q208, BEN3379                                                                                          |
| <b>Revision</b>           | Version 2.1 : September 7, 2026                                                                         |

| Properties                                            | Typical Value | Unit              | Method        |
|-------------------------------------------------------|---------------|-------------------|---------------|
| <b>Polymer properties</b>                             |               |                   |               |
| Density, (23 °C)                                      | 0.9           | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Melt Flow Rate (MFR)</b>                           |               |                   |               |
| at 230 °C and 2.16 kg                                 | 11            | g/10 min          | ISO 1133-1    |
| <b>Mechanical properties</b>                          |               |                   |               |
| <b>Charpy Impact Strength</b>                         |               |                   |               |
| at 23 °C, Type 1, Edgewise, Notch A                   | 4             | kJ/m <sup>2</sup> | ISO 179       |
| <b>Tensile test</b>                                   |               |                   |               |
| Strain at Yield                                       | 9             | %                 | ISO 527-1, -2 |
| Strain at Break                                       | >50           | %                 | ISO 527-1, -2 |
| Stress at Yield                                       | 36            | MPa               | ISO 527-1, -2 |
| Tensile Modulus                                       | 1800          | MPa               | ISO 527-1, -2 |
| <b>Thermal properties</b>                             |               |                   |               |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 105           | °C                | ISO 75-1, -2  |
| <b>Vicat Softening Temperature</b>                    |               |                   |               |
| (A/50)                                                | 154           | °C                | ISO 306       |

#### 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

For further information regarding the Velogy, please visit <http://www.velogy.com>

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