

## Technical Data Sheet : AdvyForm E0830

### Polypropylene, Impact Copolymer

#### Product Description

The grade is a nucleated impact copolymer suitable for injection molding and thermoforming applications. Exhibits an outstanding low temperature impact performance and good stiffness combined with a good processability. Typically used by customers in luggage, transport and cold storage crates, sports and leisure equipment, toys and typical consumer components which are subjected to impact and/or low temperature.

Information regarding regulatory status, including supported, prohibited, or restricted applications, is provided in the Product Regulatory Summary and the Safety Data Sheet (SDS).

#### General

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| <b>Application</b>        | Caps & Closures; Crates; Luggage; Sports, Leisure & Toys                           |
| <b>Market</b>             | Consumer Products; Rigid Packaging                                                 |
| <b>Processing Method</b>  | Injection Molding; Thermoforming                                                   |
| <b>Attribute</b>          | Good Processability; High Impact Resistance; Low Flow; Medium Stiffness; Nucleated |
| <b>Internal reference</b> | 1Q090, BEN8475                                                                     |
| <b>Revision</b>           | Version 2 ; September 3, 2026                                                      |

| Properties                                                | Typical Value | Unit              | Method        |
|-----------------------------------------------------------|---------------|-------------------|---------------|
| <b>Polymer properties</b>                                 |               |                   |               |
| Density                                                   | 0.9           | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Melt Flow Rate (MFR)</b>                               |               |                   |               |
| at 230 °C and 2.16 kg                                     | 4             | g/10 min          | ISO 1133-1    |
| <b>Mechanical properties</b>                              |               |                   |               |
| <b>Charpy Impact Strength</b>                             |               |                   |               |
| (-20 °C, Type 1, Edgewise, Notch A)                       | 7             | kJ/m <sup>2</sup> | ISO 179       |
| ( 0°C, Type 1, Edgewise, Notch A)                         | 13            | kJ/m <sup>2</sup> | ISO 179       |
| ( 23 °C, Type 1, Edgewise, Notch A)                       | 66            | kJ/m <sup>2</sup> | ISO 179       |
| <b>Tensile test</b>                                       |               |                   |               |
| Strain at Yield                                           | 5             | %                 | ISO 527-1, -2 |
| Strain at Break                                           | >50           | %                 | ISO 527-1, -2 |
| Stress at Yield                                           | 20            | MPa               | ISO 527-1, -2 |
| Tensile Modulus                                           | 1100          | MPa               | ISO 527-1, -2 |
| <b>Thermal properties</b>                                 |               |                   |               |
| Deflection Temperature Under Load, (0.45 MPa, Unannealed) | 85            | °C                | ISO 75-1, -2  |
| <b>Vicat Softening Temperature</b>                        |               |                   |               |
| (A/50)                                                    | 140           | °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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