Velogy.
Aert van Nesstraat 45,
3012 CA Rotterdam, The Netherlands

# Technical Data Sheet : AdvyForm E1180

## Polypropylene, Impact Copolymer

### Product Description

The grade is a high crystallinity copolymer polypropylene for injection moulding, designed for interior trim.
The grade features an excellent balance of stiffness and impact resistance combined with high fluidity. The grade is UV stabilized for interior applications and is available in natural, pellet form.

**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

| | |
|---|---|
| **Application** | Interior Automotive Applications |
| **Market** | Automotive |
| **Processing Method** | Injection Molding |
| **Attribute** | Good UV Resistance; High Impact Resistance; High Rigidity |
| **Internal reference** | 1Q121, BEN6349 |
| **Revision** | Version 2 ; June 1, 2026 |

| Properties | Typical Value | Unit | Method |
|---|---|---|---|
| **Polymer properties** | | | |
| Density | 0.89 | $g/cm^3$ | ISO 1183-1 |
| ***Melt Flow Rate (MFR)*** | | | |
| at 230 °C and 2.16 kg | 14 | g/10 min (dg/min) | ISO 1133-1 |
| **Mechanical properties** | | | |
| ***Charpy Impact Strength*** | | | |
| at -20 °C, Type 1, Edgewise, Notch A | 7 | $kJ/m^2$ | ISO 179 |
| at 0°C, Type 1, Edgewise, Notch A | 10 | $kJ/m^2$ | ISO 179 |
| ***Flexural test*** | | | |
| Flexural Modulus | 1100 | MPa | ISO 178 |
| ***Tensile test*** | | | |
| Tensile Modulus | 1100 | MPa | ISO 527-1, -2 |
| Strain at Break | 350 | % | ISO 527-1, -2 |
| Strain at Yield | 7 | % | ISO 527-1, -2 |
| Stress at Break | 15 | MPa | ISO 527-1, -2 |
| Stress at Yield | 19 | MPa | ISO 527-1, -2 |
| **Thermal properties** | | | |
| ***Differential scanning calorimetry (DSC)*** | | | |
| Melting Point | 163 | °C | ISO 11357-3 |
| ***Heat deflection temperature*** | | | |
| Deflection Temperature Under Load, (0.45 MPa, Unannealed) | 90 | °C | ISO 75-1, -2 |
| ***Vicat Softening Temperature*** | | | |
| (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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