

## Technical Data Sheet : KeyForm E1700

### Polypropylene, Impact Copolymer

#### Product Description

The grade is a very high flow heterophasic copolymer used for injection molding. Features an excellent balance between easy processing and good impact strength. The main applications are thin-walled injection molding applications and technical compounds.

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

#### General

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Application          | TWIM Food Containers; TWIM Non-food Containers                                         |
| Market               | Compounding; Consumer Products; Rigid Packaging                                        |
| Processing Method    | Compounding; Injection Molding                                                         |
| Attribute            | High Flow; High Impact Resistance; Low Temperature Impact Resistance; Medium Stiffness |
| Internal ref. number | 1Q186, BEN1271                                                                         |
| Revision             | Version 1.1 : June 2026                                                                |

#### Properties.

| Typical Properties                                        | Nominal Value* | Units             | Test Method   |
|-----------------------------------------------------------|----------------|-------------------|---------------|
| <b>Physical</b>                                           |                |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                          | 70             | g/10 min          | ISO 1133-1    |
| Density                                                   | 0.89           | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                         |                |                   |               |
| Flexural Modulus                                          | 900            | MPa               | ISO 178       |
| Tensile Modulus                                           | 1000           | MPa               | ISO 527-1, -2 |
| Tensile Stress at Break                                   | 15.5           | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                                   | 23             | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                                   | 70             | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                                   | 7              | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                             |                |                   |               |
| Charpy Impact Strength - Notched                          |                |                   |               |
| (23 °C, Type 1, Edgewise, Notch A)                        | 7              | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C)                                                    | 4              | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C, Type 1, Edgewise, Notch A)                       | 3              | kJ/m <sup>2</sup> | ISO 179       |
| <b>Thermal</b>                                            |                |                   |               |
| Vicat Softening Temperature, (A50)                        | 145            | °C                | ISO 306       |
| Deflection Temperature Under Load, (0.45 MPa, Unannealed) | 72             | °C                | ISO 75B-1, -2 |
| DSC Melting Point                                         | 163            | °C                | DCS           |

\*)These are typical property values not to be construed as specification limits.

### **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>

© Rotterdam Olefins & Polyolefins B.V.

### **Disclaimer**

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, Velogy may further prohibit or restrict the sale of its products into certain applications.

For further information, please contact [RegulatoryComplianceROP@velogy.com](mailto:RegulatoryComplianceROP@velogy.com)