

Technical Data Sheet : AdvyForm E1801

Polypropylene, Impact Copolymer

Product Description

The polymer grade is an ultra-high fluidity polypropylene copolymer used for injection molding applications. The product combines high stiffness with good impact resistance, even at sub-zero temperatures. Typically extensively used for items with long flow paths.

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	Containers; Housewares; Sports, Leisure & Toys; TWIM Food Containers
Market	Compounding; Consumer Products; Rigid Packaging
Processing Method	Compounding; Injection Molding
Attribute	Good Impact Resistance; Good Stiffness; High Flow; Impact Copolymer; Low Temperature Impact Resistance
Internal ref. number	1Q120, BEN8504
Revision	Version 2 ; September 3, 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	100	g/10 min	ISO 1133-1
Melt Volume Flow Rate, (230 °C/2.16 kg)	135	cm ³ /10 min	ISO 1133-1
Density	0.9	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1100	MPa	ISO 178
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	24	MPa	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(A/50)	149	°C	ISO 306
(B50)	74	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	93	°C	ISO 75B-1, -2

*)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

Trademarks

The Trademark referenced within the product name is owned or used by the Velogy group of companies