

Technical Data Sheet : AdvyForm E1031

Polypropylene, Impact Copolymer

Product Description

The polymer grade is non-filled polypropylene copolymer for injection molding with very high impact strength. The grade features improved processability. The grade is natural, in pellet form.

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	Bumpers
Market	Automotive
Processing Method	Compounding, Injection Molding
Attribute	High Impact Resistance
Internal reference	1Q122, BEN7994
Revision	Version 2.1 : September 3, 2026

Properties	Typical Value	Unit	Method
Polymer properties			
Density, (23 °C, Method A)	0.89	g/cm ³	ISO 1183-1
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	7.5	g/10 min	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	12	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A)	65	kJ/m ²	ISO 179
Flexural test			
Flexural Modulus	900	MPa	ISO 178
Tensile test			
Strain at Yield	6	%	ISO 527-1, -2
Strain at Break	500	%	ISO 527-1, -2
Stress at Yield	17	MPa	ISO 527-1, -2
Stress at Break	15	MPa	ISO 527-1, -2
Tensile Modulus	800	MPa	ISO 527-1, -2
Thermal properties			
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	80	°C	ISO 75-1, -2
Differential scanning calorimetry (DSC)			
DSC Melting Point	163	°C	ISO 11357-3
Vicat Softening Temperature			
(A/50)	130	°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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