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

Technical Data Sheet : AdvyForm E0400

Polypropylene, Impact Copolymer

Product Description

The polymer grade is a low fluidity polypropylene hetero-phasic copolymer. It does not contain anti-blocking and slip additives. Typically used by customers for extrusion applications when high mechanical properties are of the utmost importance. It is normally extruded by customers in single layer film for lamination on other substrates, obtaining structures that can be processed under high retorting conditions. This grade has been reported to be used in some other typical applications, such as extruded film for adhesive tapes, lamination film, freezer film, pipes, fittings and containers produced by extrusion blow moulding. Customers also reported
that can be used as a building block for heavy duty bags, delivering high impact and thermal resistance over a broad range of temperatures. Exhibit high impact, good puncture, good tear resistance, high seal strength and seal integrity.

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	Containers; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Surface, Protection Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film; Extrusion Blow Molding; Pipe
Attribute	Good Processability; Impact Copolymer; Low Flow
Internal reference	1Q207, BEN3319
Revision	Version 2 : September 3, 2026

Properties	Typical Value	Unit	Method
Polymer properties			
Density	0.9	g/cm^3	ISO 1183-1
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	0.95	g/10 min (dg/min)	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
at -20 °C, Type 1, Edgewise, Notch A	5	kJ/m^2	ISO 179
at 23 °C, Type 1, Edgewise, Notch A	50	kJ/m^2	ISO 179
Flexural test			
Flexural Modulus	1080	MPa	ISO 178
Tensile test			
Strain at Break	>500	%	ISO 527-1, -2
Strain at Yield	14	%	ISO 527-1, -2
Stress at Break	31	MPa	ISO 527-1, -2
Stress at Yield	26	MPa	ISO 527-1, -2
Thermal properties			
Heat deflection temperature			
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	83	°C	ISO 75-1, -2
Vicat Softening Temperature			
(A/50)	152	°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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