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

Technical Data Sheet : AdvyForm R0500

Polypropylene, Random Copolymer

Product Description

The polymer grade is a medium modified polypropylene random copolymer designed for blow moulding and sheet & film extrusion. It offers low density, stress cracking resistance and high chemical resistance.
Main applications are extrusion of film for packaging & sheet for stationery folders and displays, the extrusion blow moulding of high gloss monolayer bottles, clear or pigmented, for the packaging of cosmetics, detergents, chemicals and food- stuffs. Suitable for food contact.

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	Bottles For Consumer Goods; Food Packaging Film; Shrink Film; Stationery Film; Thermoformed Food Containers; Wire & Cable
Market	Flexible Packaging; Wire & Cable
Processing Method	Blown Film, Double Bubble; Extrusion Blow Molding; Injection Blow Molding; Sheet
Attribute	Good Chemical Resistance; High ESCR (Environmental Stress Cracking Resistance); High Gloss; Low Density; Random Copolymer
Internal reference	1Q084, BEN8731
Revision	Version 2 ; September 4, 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	1.8	g/10 min (dg/min)	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
at 0°C, Type 1, Edgewise, Notch A	3.5	kJ/m^2	ISO 179
at 23 °C, Type 1, Edgewise, Notch A	12	kJ/m^2	ISO 179
Flexural test			
Flexural Modulus	850	MPa	ISO 178
Tensile test			
Strain at Break at 23 °C and 50 mm/min	600	%	ISO 527-1, -2
Strain at Yield at 23 °C and 50 mm/min	14	%	ISO 527-1, -2
Stress at Break at 23 °C and 50 mm/mim	28	MPa	ISO 527-1, -2
Stress at Yield at 23 °C and 50 mm/min	25	MPa	ISO 527-1, -2
Thermal properties			
Heat deflection temperature			
Deflection Temperature Under Load, (0.46 N/mm^2)	68	°C	ISO 75-1, -2
Vicat Softening Temperature			
(A/50)	135	°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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