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

Technical Data Sheet : AdvyForm E0970

Polypropylene, Impact Copolymer

Product Description

The grade is a polypropylene impact copolymer with medium melt flow rate, suitable for compression and injection moulding processes. Exhibits a good stiffness, impact strength balance, high stress cracking resistance and low stress whitening behaviour. The grade is nucleated, for faster crystallization rate and increased productivity. It contains both slip and antistatic additives, for easier demoulding and low coefficient of friction.
Is typically used in caps and closures, other typical applications are in the field of housewares, toys and rigid packaging.

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	Caps & Closures; Housewares; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Compression Molding; Injection Molding
Attribute	Impact Copolymer; Medium Impact Resistance; Medium Slip; Medium Stiffness; Nucleated
Internal reference	1Q078, BEN8496
Revision	Version 2 : September 3, 2026

Properties	Typical Value	Unit	Method
Polymer properties			
Density, (23 °C)	0.9	g/cm^3	ISO 1183-1
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	6	g/10 min (dg/min)	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
at -20 °C, Type 1, Edgewise, Notch A	3.5	kJ/m^2	ISO 179
at 0°C, Type 1, Edgewise, Notch A	4.5	kJ/m^2	ISO 179
at 23 °C, Type 1, Edgewise, Notch A	8.5	kJ/m^2	ISO 179
Tensile test			
Tensile Modulus	1500	MPa	ISO 527-1, -2
Strain at Break	>50	%	ISO 527-1, -2
Strain at Yield	7	%	ISO 527-1, -2
Stress at Yield	30	MPa	ISO 527-1, -2
Thermal properties			
Heat deflection temperature			
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	100	°C	ISO 75-1, -2
Vicat Softening Temperature			
(A/50)	151	°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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