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

Technical Data Sheet : AdvyForm E1241

High Crystallinity Polypropylene

Product Description

The product is a high crystalline impact copolymer with outstanding mechanical properties. The product features an easy processability, an excellent combination of stiffness and impact strength and good gloss. The product is a single component solution for high stiffness injection moulding applications that is typically used by customers as replacement of mineral filled polypropylene based compounds.

UL listed under file E556200

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, Electrical appliances, Furniture, Housewares, Technical components
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Good Processability; High Stiffness; Impact Copolymer; Medium Flow; Medium Impact Resistance
Internal reference	1Q089, BEN6704
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	18	g/10 min (dg/min)	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
at -20 °C, Type 1, Edgewise, Notch A	2.5	kJ/m^2	ISO 179
at 0°C, Type 1, Edgewise, Notch A	3	kJ/m^2	ISO 179
at 23 °C, Type 1, Edgewise, Notch A	6.5	kJ/m^2	ISO 179
Tensile test			
Tensile Modulus	1750	MPa	ISO 527-1, -2
Strain at Break	50	%	ISO 527-1, -2
Strain at Yield	5	%	ISO 527-1, -2
Stress at Yield	32	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)	153	°C	ISO 306
Optical properties			
Gloss			
(60°)	70	%	ASTM D2457

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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