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

Technical Data Sheet : AdvyForm H0621

High Density Polyethylene

Product Description

The polymer grade is a state of the art HDPE resin. Excellent balance of stiffness, toughness and environmental stress cracking resistance make the grade suitable for the production of closures for water, CSD and many other types of food and non-food caps and closures. Formulated with an additive package for an optimised processability & opening torque.

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; Collapsible Tubes
Market	Consumer Products; Rigid Packaging
Processing Method	Compression Molding
Attribute	Good ESCR (Environmental Stress Cracking Resistance); Good Toughness; High Density
Internal reference	1Q360, BEN8770
Revision	Version 2.1: October 22, 2026

Properties	Typical Value	Unit	Method
Polymer properties			
Density	0.953	g/cm^3	ISO 1183-1
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.8	g/10 min (dg/min)	ISO 1133-1
at 190 °C and 5.0 kg	2.5	g/10 min (dg/min)	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
at -30 °C, Type 1, Edgewise, Notch A	4.6	kJ/m^2	ISO 179
at 23 °C, Type 1, Edgewise, Notch A	8.26	kJ/m^2	ISO 179
Full-Notch Creep Test (FNCT) - Environmental stress cracking (ESC)			
(6.0 Mpa, 2% Arkopal N100, 50 °C)	>30	hr	ISO 16770
(6.0 Mpa, 6.6% Dehyton PL, 50 °C)	27	hr	ISO 16770
Hardness			
Shore Hardness, (Shore D)	66.6		ISO 868
Tensile test			
Tensile Modulus	1150	MPa	ISO 527-1, -2
Strain at Yield	9	%	ISO 527-1, -2
Stress at Yield	26	MPa	ISO 527-1, -2

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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