Rotterdam Olefins & Polyolefins B.V.
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.

Information regarding regulatory status, including supported, prohibited, or restricted applications, is provided in the **Product Regulatory Summary** and the **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 ref. number	1Q360, BEN8770
Revision	Version 1 : August 12, 2026

Properties.

Typical Properties		Nominal Value*	Units	Test Method
Physical				
	Melt Flow Rate			
	(190 °C/2.16 kg)	0.8	g/10 min	ISO 1133-1
	(190 °C/5.0 kg)	2.5	g/10 min	ISO 1133-1
	Density	0.963	g/cm^3	ISO 1183-1
Mechanical				
	Tensile Modulus	11150	MPa	ISO 527-1, -2
	Tensile Stress at Yield	26	MPa	ISO 527-1, -2
	Tensile Strain at Yield	9	%	ISO 527-1, -2
	FNCT			
	(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
Impact				
	Charpy Impact Strength - Notched			
	(23 °C)	8.26	kJ/m^2	ISO 179
	(-30 °C)	4.6	kJ/m^2	ISO 179
Thermal				
	Shore Hardness, (Shore D)	66.6		ISO 868
	Ball Indentation Hardness	48.8	MPa	ISO 2039-1
Thermal				

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Vicat Softening Temperature, (B50)	75.7	°C	ISO 306

*)These are typical property values not to be construed as specification limits.

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

Recommended melt temperatures: 190 °C to 230 °C.

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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