

Technical Data Sheet : AdvyForm H0780

High Density Polyethylene

Product Description

Outstanding balance of stiffness, toughness and environmental stress cracking resistance make the grade choice of customers for the production of closures for water, CSD and many other types of food and non-food caps and closures. The grade is formulated with an additive package used by customers for an optimized combination of organoleptic properties and 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; Injection Molding
Attribute	Good Organoleptic Properties; Good Toughness; High Density; High ESCR (Environmental Stress Cracking Resistance)
Internal ref. number	1Q129, BEN7774
Revision	Version 1.1 ; June 2026

Properties.

Typical Properties	Nominal Value ^{*)}	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	1.45	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	6.4	g/10 min	ISO 1133-1
Density	0.954	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	22	MPa	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
FNCT, (6.0 MPa, 6.6% Dehyton PL, 50 °C)	12	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched			
(23 °C)	11	kJ/m ²	ISO 179
(-30 °C)	4.5	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore D)	55		ISO 868
Ball Indentation Hardness	54	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B50)	70	°C	ISO 306
Processing Techniques			
Recommended melt temperatures	190-230	°C	

^{*)} 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.

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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