

Technical Data Sheet : CertyForm H0700

High Density Polyethylene

Product Description

Exceptional organoleptic properties and outstanding balance of stiffness, toughness and environmental stress cracking resistance make the polymer grade the choice of customers for the production of closures for still mineral and sparkling water, CSD and many other types of food and non-food caps and closures (incl. hinge caps) as well as tube shoulders and compression moulding applications.

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; Caps & Closures (Healthcare); Collapsible Tubes; Collapsible Tubes (Healthcare); Healthcare
Market	Consumer Products; Healthcare; Rigid Packaging
Processing Method	Compression Molding; Injection Molding
Attribute	Ethylene Oxide Sterilisation; Good Organoleptic Properties; Good Toughness; High Density; High ESCR (Environmental Stress Cracking Resistance)
Internal reference	1Q124, BEN8871
Revision	Version 2 : August 31, 2026

Properties	Typical Value	Unit	Method
Polymer properties			
Density	0.954	g/cm ³	ISO 1183-1
Melt Flow Rate (MFR)			
at 190 °C and 5.0 kg	6.4	g/10 min	ISO 1133-1
at 190 °C and 2.16 kg	1.45	g/10 min	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
at -30 °C, Type 1, Edgewise, Notch A	4.5	kJ/m ²	ISO 179
at 23 °C, Type 1, Edgewise, Notch A	11	kJ/m ²	ISO 179
Full-Notch Creep Test (FNCT) - Environmental stress cracking (ESC)			
(6.0 Mpa, 6.6% Dehyton PL, 50 °C)	12	hr	ISO 16770
Hardness			
Shore Hardness, (Shore D)	55		ISO 868
Tensile test			
Strain at Yield	10	%	ISO 527-1, -2
Stress at Yield	22	MPa	ISO 527-1, -2
Tensile Modulus	1100	MPa	ISO 527-1, -2
Thermal properties			
Vicat Softening Temperature			
(B/50)	70	°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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