

Technical Data Sheet : CertyForm H1201

High Density Polyethylene

Product Description

The polymer grade is an HDPE material which exhibits good flowability and high rigidity. Exceptional organoleptic properties and a good balance of stiffness, toughness and processability make the grade the choice of customers for the production of closures for still mineral water and many other types of food and non-food caps and closures as well as tube shoulders.

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 Injection Molding
Attribute Ethylene Oxide Sterilisation; Good Flow; High Rigidity; Low Warpage
Internal reference 1Q123, BEN8875
Revision Version 2 : September 4, 2026

Properties	Typical Value	Unit	Method
Polymer properties			
Density	0.96	g/cm ³	ISO 1183-1
Melt Flow Rate (MFR)			
at 190 °C and 5.0 kg	23	g/10 min	ISO 1133-1
at 190 °C and 2.16 kg	8	g/10 min	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
at -30 °C, Type 1, Edgewise, Notch A	2.5	kJ/m ²	ISO 179
at 23 °C, Type 1, Edgewise, Notch A	4	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore D)	64		ISO 868
Tensile test			
Strain at Yield	10	%	ISO 527-1, -2
Stress at Yield	30	MPa	ISO 527-1, -2
Tensile Modulus	1350	MPa	ISO 527-1, -2
Thermal properties			
Vicat Softening Temperature			
(B/50)	72	°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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