

Technical Data Sheet : PL ACP6541A (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.

Typically used by our customers in injection moulding applications in the medical and pharmaceutical market after approval is given by Velogy.

Information regarding regulatory status, including supported, prohibited, or restricted applications, is provided in the **Product Regulatory Summary** and the **Safety Data Sheet (SDS)**.

General

Applications	Caps & Closures; Caps & Closures (Healthcare); Collapsible Tubes; Collapsible Tubes (Healthcare); Healthcare Applications; Medical Devices
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 ref. number	1Q124, BEN8871
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, (H 132/30)	54	MPa	ISO 2039-1

Thermal

Vicat Softening Temperature, (B50)	70 °C	ISO 306
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*)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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For further information, please contact RegulatoryComplianceROP@velogy.com