

Technical Data Sheet : CertyForm E1440 (PL EA678P) High Crystallinity Polypropylene

Product Description

The polymer grade is a nucleated polypropylene impact copolymer suitable for use in injection molding applications. The product exhibits an excellent balance of toughness and high stiffness, combined with a good processability. Typically used in injection molding applications to produce medical devices components where high mechanical properties are required.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical and Business contacts first.

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 (Healthcare); Diagnostic Applications; Healthcare Applications; Medical Devices
Market	Healthcare
Processing Method	Injection Molding
Attribute	Antistatic; Autoclavable; Ethylene Oxide Sterilisation; Good Chemical Resistance; Good Processability; High Stiffness; Impact Copolymer; Medium Flow; Nucleated
Internal ref. number	1Q259, BEN37469
Revision	April 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	18	g/10 min	ISO 1133-1
Density	0.9	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1750	MPa	ISO 527-1, -2
Tensile Stress at Yield	32	MPa	ISO 527-1, -2
Tensile Strain at Break	50	%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	153	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	100	°C	ISO 75B-1, -2

Optical

Gloss, (60°)	70	%	ASTM D2457
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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.

Company Information

For further information regarding the Velogy, please visit <http://www.velogy.com>

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