

Technical Data Sheet : CertyForm R1380 (PL RP375R) Polypropylene, Random Copolymer

Product Description

The polymer grade is a polypropylene random copolymer for use in injection molding applications. Exhibits excellent transparency and good physical-mechanical balance of properties. Has a tailor made additivition package to enhance its resistance to irradiation, making it suitable for items to be sterilized via gamma-rays.

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	Healthcare Applications; Medical Devices; Syringes
Market	Healthcare
Processing Method	Injection Molding
Attribute	Autoclavable; E-Beam Sterilizable; Ethylene Oxide Sterilisation; Good Optical Properties; Medium Flow; Radiation Sterilizable; Random Copolymer
Internal ref. number	1Q221, BEN13696
Revision	April 2026

Properties.

Typical Properties	Nominal Value [*]	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	25	g/10 min	ISO 1133-1
Density, (23 °C)	0.9	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	15	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6	kJ/m ²	ISO 179
(0 °C)	2.5	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	45	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	134	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	78	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	9	%	ASTM D1003

^{*})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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