

Technical Data Sheet : CertyForm R1540 (PL RP378T) Polypropylene, Random Copolymer

Product Description

The polymer grade is a nucleated polypropylene random copolymer for use in injection molding applications . Contains an anti-static agent and exhibits very good flow properties and good transparency. Typically used for injection molding medical and pharmaceutical applications, like medical device components, labware.

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
Market	Healthcare
Processing Method	Injection Molding
Attribute	Autoclavable; Contains Antistat; Ethylene Oxide Sterilisation; High Flow; High Transparency; Random Copolymer
Internal ref. number	1Q052, BEN8902
Revision	April 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	48	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	13	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	2	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	48	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	130	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	74	°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>

© Rotterdam Olefins & Polyolefins B.V.

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, Velogy may further prohibit or restrict the sale of its products into certain applications.

For further information, please contact RegulatoryComplianceROP@velogy.com