

Technical Data Sheet



Purell® RP491S

Polypropylene, Random Copolymer

Product Description

Purell® RP491S is a nucleated polypropylene random copolymer intended for use in injection molding processes. This resin offers good impact resistance and antistatic performance in healthcare applications*.

Additional features:

- DMF Listed
- Autoclaveable
- Ethylene Oxide Sterilizable
- Made with non-phthalate technology

Regulatory Status

For regulatory compliance information, see [Purell® RP491S Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial
Availability	North America
Application	Healthcare Applications
Market	Healthcare
Processing Method	Injection Molding
Attribute	Contains Antistat; Good Impact Resistance; Nucleated

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	35	g/10 min	35	g/10 min	ASTM D1238
Density, (23 °C)	0.90	g/cm³	0.90	g/cm³	ASTM D792
Mechanical					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	135000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			930	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	3800	psi			ASTM D638
(50 mm/min)			26.2	MPa	ASTM D638
Tensile Elongation at Yield	13	%	13	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	1.1	ft-lb/in			ASTM D256
(23 °C, Method A)			59	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	185	°F			ASTM D648
(0.45 MPa, Unannealed)			85	°C	ASTM D648



Notes

These are typical property values not to be construed as specification limits.

*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. To discuss a medical/pharmaceutical application please contact your local LyondellBasell reference or your local Distributor.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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