Technical Data Sheet

Pro-fax RP491S

Polypropylene, Random Copolymer

Product Description

Pro-fax RP491S polypropylene random copolymer resin is available in pellet form. This resin is typically used in injection molding applications.

Regulatory Status

For regulatory compliance information, see *Pro-fax* RP491S Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Containers
Market	Rigid Packaging
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.

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/.

© LyondellBasell Industries Holdings, B.V. 2026

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, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.