

Technical Data

Product Description

Pro-fax PF511 radiation resistant, high melt flow, controlled rheology polypropylene homopolymer is available in pellet form. This resin is typically used in injection molding applications and offers retention of physical properties and color after radiation sterilization and good processability.

This resin resists yellowing and embrittlement after gamma radiation. However, since performance and appearance after radiation sterilization can be sensitive to design and processing choices, the users should verify performance in their application.

Our customers typically use this resin in applications such as medical devices, syringes, test tubes and blood vials.

For regulatory compliance information see Pro-fax PF511 Product Stewardship Bulletin (PSB).

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

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Extrusion (English) • Processing - Injection Molding (English) • Processing - Mold Shrink (English) • Technical Datasheet (English)
Search for UL Yellow Card	• LyondellBasell Industries • Pro-fax
Availability	• North America
Features	• Good Color Stability • Good Processability • Radiation (Gamma) Resistant • Radiation Sterilizable
Uses	• Medical/Healthcare Applications • Vials
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.898 g/cm ³	ASTM D792B
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield)	26.9 MPa	ASTM D638
Tensile Elongation (Yield)	16 %	ASTM D638
Flexural Modulus - 1% Secant ⁴	758 MPa	ASTM D790A
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	32 J/m	ASTM D256A
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	77.2 °C	ASTM D648

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 51 mm/min

⁴ 1.3 mm/min

Pro-fax PF511

Polypropylene Homopolymer

LyondellBasell Industries

Where to Buy

Supplier

LyondellBasell Industries

Wilmington, DE USA

Telephone: 713-309-7200

Web: <http://polymers.lyondellbasell.com/portal/site/basell/>

Distributor

M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

Nexeo Solutions

Telephone: 888-594-6009

Web: <http://www.nexeosolutions.com/>

Availability: North America

PolyOne Distribution

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.

Telephone: 800-894-4266

Web: <http://polyonedistribution.com/>

Availability: Global



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– Birgit Elvardt Bader, Production Manager, Micotron

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Material Data Management – www.ides.com/datasheets

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"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."

– Kevin Chase, Owner & President, Chase Plastics



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