

Pro-fax 6323

Polypropylene Homopolymer

LyondellBasell Industries

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Technical Data

Product Description

Pro-fax 6323 general purpose polypropylene homopolymer is available in pellet form. This resin is typically used in injection molding applications.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax 6323.

For regulatory compliance information see Pro-fax 6323 Product Stewardship Bulletin (PSB).

General

| | |
|---------------------------|---|
| Material Status | • Commercial: Active |
| Literature ¹ | • Processing - Injection Molding (English) • Processing - Mold Shrink (English) • Technical Datasheet - ASTM (English) • Technical Datasheet - ISO (English) |
| Search for UL Yellow Card | • LyondellBasell Industries • Pro-fax |
| Availability | • North America |
| Features | • Good Stiffness • Heat Aging Resistant • High ESCR (Stress Crack Resist.) • Homopolymer |
| Uses | • Automotive Applications • Caps • Closures • Containers • Sporting Goods • Toys |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|---------------------------|-------------------------|-------------|
| Density / Specific Gravity | | | |
| -- | 0.900 | 0.898 g/cm ³ | ASTM D792B |
| -- | 0.900 g/cm ³ | 0.900 g/cm ³ | ISO 1183/A |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 g/10 min | 12 g/10 min | ASTM D1238 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength | | | |
| Yield ³ | 4930 psi | 34.0 MPa | ASTM D638 |
| Yield, 73°F (23°C) | 4500 psi | 31.0 MPa | ISO 527-2 |
| Tensile Elongation | | | |
| Yield | 11 % | 11 % | ASTM D638 |
| Yield, 73°F (23°C) | 11 % | 11 % | ISO 527-2 |
| Flexural Modulus | | | |
| 1% Secant ⁴ | 210000 psi | 1450 MPa | ASTM D790A |
| 73°F (23°C) | 187000 psi | 1290 MPa | ISO 178 |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Charpy Notched Impact Strength (73°F (23°C)) | 2.0 ft·lb/in ² | 4.2 kJ/m ² | ISO 179 |
| Notched Izod Impact | | | |
| 73°F (23°C) | 0.60 ft·lb/in | 32 J/m | ASTM D256A |
| 73°F (23°C) | 2.0 ft·lb/in ² | 4.1 kJ/m ² | ISO 180 |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load | | | |
| 66 psi (0.45 MPa), Unannealed | 199 °F | 93.0 °C | ASTM D648 |
| 66 psi (0.45 MPa), Unannealed | 169 °F | 76.0 °C | ISO 75-2/B |
| 264 psi (1.8 MPa), Unannealed | 120 °F | 49.0 °C | ISO 75-2/A |



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 2.0 in/min (50 mm/min)

⁴ 0.051 in/min (1.3 mm/min)



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Where to Buy

Supplier

LyondellBasell Industries

Wilmington, Wilmington USA

Telephone: 713-309-7200

Web: <https://www.lyondellbasell.com/>

Distributor

Entec Polymers Latin America

Contact Entec Polymers for availability of individual products by country.

Web: <https://www.entecpolymers.com/>

Availability: Latin America

Formerra (Formerly Avient Distribution)

Formerra is a next generation distributor of performance material solutions for the world's leading brand owners and manufacturers. Bringing you commercial and technical expertise, industry know-how, and access to more than 5,000 materials from 40+ premium suppliers faster and easier than ever before.

Telephone: 1.888.502.0951 (USA); +86-21-60284936 (China)

Web: <https://www.formerra.com>

Availability: Global

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 Plastics

Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at www.nexeoplastics.com.

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

Nexeo Plastics - Europe

Nexeo Plastics is a Pan European distribution company. Contact Nexeo for availability of individual products by country.

Telephone: +34-93-480-9125

Web: <https://www.nexeoplastics.com/>

Availability: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland, United Kingdom

Osterman & Company

Telephone: 800-914-4437

Web: <http://www.osterman-co.com/>

Availability: North America

Plastic Service Centers

Telephone: 586-307-3900

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

Availability: North America

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

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

Availability: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, South Africa, Spain, Sweden, Turkey, United Kingdom

