

# 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 <sup>1</sup>	• <a href="#">Processing - Injection Molding (English)</a> • <a href="#">Processing - Mold Shrink (English)</a> • <a href="#">Technical Datasheet - ASTM (English)</a> • <a href="#">Technical Datasheet - ISO (English)</a>
Search for UL Yellow Card	• <a href="#">LyondellBasell Industries</a> • <a href="#">Pro-fax</a>
Availability	• North America
Features	• Good Stiffness • Heat Aging Resistant • High ESCR (Stress Crack Resist.) • Homopolymer
Uses	• Automotive Applications • Caps • Closures • Containers • Sporting Goods • Toys
Automotive Specifications	• CHRYSLER MS-DB-500 CPN2571
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	0.900	0.898 g/cm <sup>3</sup>	ASTM D792B
--	0.900 g/cm <sup>3</sup>	0.900 g/cm <sup>3</sup>	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 <sup>3</sup>	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 <sup>4</sup>	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 <sup>2</sup>	4.2 kJ/m <sup>2</sup>	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 <sup>2</sup>	4.1 kJ/m <sup>2</sup>	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



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### Notes

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 2.0 in/min (50 mm/min)

<sup>4</sup> 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](http://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: 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

