

Pro-fax 6523

Polypropylene Homopolymer
LyondellBasell Industries

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Pro-fax 6523 general purpose polypropylene homopolymer resin is available in pellet form.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax 6523.

For regulatory compliance information see Pro-fax 6523 Product Stewardship Bulletin (PSB).

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Extrusion (English) • 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 Heat Aging Resistance • Good Stiffness • High ESCR (Stress Crack Resist.) • Homopolymer
Uses	• Food Containers • Household Goods • Thermoformed Containers
Processing Method	• Extrusion • Injection Molding • Thermoforming

Physical	Nominal Value Unit	Test Method
Specific Gravity		
--	0.898 g/cm ³	ASTM D792B
--	0.900 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield ³	33.0 MPa	ASTM D638
Yield, 23°C	30.0 MPa	ISO 527-2
Tensile Elongation		
Yield	12 %	ASTM D638
Yield, 23°C	12 %	ISO 527-2
Flexural Modulus		
1% Secant ⁴	1380 MPa	ASTM D790A
23°C	1270 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.7 kJ/m ²	ISO 179
Notched Izod Impact		
23°C	53 J/m	ASTM D256A
23°C	6.2 kJ/m ²	ISO 180

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	88.0 °C	ASTM D648
0.45 MPa, Unannealed	79.0 °C	ISO 75-2/B
1.8 MPa, Unannealed	50.0 °C	ISO 75-2/A



Pro-fax 6523

Polypropylene Homopolymer

LyondellBasell Industries

PROSPECTOR®

www.ulprospector.com

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 50 mm/min

⁴ 1.3 mm/min



Pro-fax 6523

Polypropylene Homopolymer

LyondellBasell Industries

PROSPECTOR®

www.ulprospector.com

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

Plastic Service Centers

Telephone: 586-307-3900

Web: <http://www.plasticservice.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

