

## Technical Data Sheet

### *Pro-fax* RP323M



Polypropylene, Random Copolymer

#### Product Description

*Pro-fax* RP323M is a barefoot polypropylene random copolymer available in pellet form. This resin is typically used in cast film packaging applications. Typical properties of cast film made with this resin are excellent clarity and gloss, as well as improved cold temperature impact resistance and broader heat seal range compared to homopolymer polypropylene.

#### Regulatory Status

For regulatory compliance information, see *Pro-fax* RP323M [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	Bags & Pouches; Breathable Film; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Hygiene Film; Peelable Film; Stationery Film; Stretch Wrap Film; Twist Wrap Film
<b>Market</b>	Flexible Packaging
<b>Processing Method</b>	Cast Film
<b>Attribute</b>	Good Heat Seal; Good Processability; Opticals

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (230 °C/2.16 kg)	8.0	g/10 min	8.0	g/10 min	ASTM D1238
Density, (23 °C)	0.90	g/cm <sup>3</sup>	0.90	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	120000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			830	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	3600	psi			ASTM D638
(50 mm/min)			24.8	MPa	ASTM D638
Tensile Elongation at Yield	14	%	14	%	ASTM D638
<b>Impact</b>					
Notched Izod Impact Strength					
(73 °F, Method A)	1.2	ft-lb/in			ASTM D256
(23 °C, Method A)			64	J/m	ASTM D256
<b>Thermal</b>					
Deflection Temperature Under Load					
(66 psi, Unannealed)	167	°F			ASTM D648
(0.45 MPa, Unannealed)			75	°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/>.

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