# **Technical Data Sheet**

# Pro-fax RP320N

Polypropylene, Random Copolymer



# **Product Description**

*Pro-fax* RP320N barefoot polypropylene random copolymer is available in pellet form. This resin is typically used in cast film applications and offers exceptional 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* RP320N <u>Product Stewardship Bulletin (PSB) and Safety</u> Data Sheet (SDS).

Status Commercial: Active Availability North America

**Application** Bags & Pouches; Breathable Film; Film Wrap; Foamed Sheet; Food Packaging Film;

Heavy Duty Packaging; Hygiene Film; Peelable Film; Stationery Film; Stretch Wrap

Film; Twist Wrap Film

Market Flexible Packaging; Industrial, Building & Construction

Processing Method Cast Film; Injection Molding
Attribute Good Processability; Opticals

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Typical Properties	Value	Units	value	Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	12	g/10 min	ASTM D1238
Density, (23 °C)	0.90	g/cm³	0.90	g/cm³	ASTM D792
Mechanical					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	135000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			930	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	4000	psi			ASTM D638
(50 mm/min)			28	MPa	ASTM D638
Tensile Elongation at Yield	13	%	13	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	0.9	ft-lb/in			ASTM D256
(23 °C, Method A)			48	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	170	°F			ASTM D648
(0.45 MPa, Unannealed)			77	°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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LyondellBasell Technical Data Sheet Date: 10/20/2022 Pro-fax RP320N Recipient Tracking #: Request #: 3977694