

## 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 [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; Foamed Sheet; Food Packaging Film; Heavy Duty Packaging; Hygiene Film; Peelable Film; Stationery Film; Stretch Wrap Film; Twist Wrap Film |
| <b>Market</b>            | Flexible Packaging; Industrial, Building & Construction                                                                                                                               |
| <b>Processing Method</b> | Cast Film; Injection Molding                                                                                                                                                          |
| <b>Attribute</b>         | 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)      | 12            | g/10 min          | 12            | 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) | 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   |
| <b>Impact</b>                         |               |                   |               |                   |             |
| Notched Izod Impact Strength          |               |                   |               |                   |             |
| (73 °F, Method A)                     | 0.9           | ft-lb/in          |               |                   | ASTM D256   |
| (23 °C, Method A)                     |               |                   | 48            | J/m               | ASTM D256   |
| <b>Thermal</b>                        |               |                   |               |                   |             |
| Deflection Temperature Under Load     |               |                   |               |                   |             |
| (66 psi, Unannealed)                  | 170           | °F                |               |                   | ASTM D648   |
| (0.45 MPa, Unannealed)                |               |                   | 77            | °C                | ASTM D648   |