

# Pro-fax SG802N

Polypropylene Impact Copolymer  
LyondellBasell Industries

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## Technical Data

### Product Description

Pro-fax SG802N high impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers very good cold temperature impact resistance.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax SG802N

For regulatory compliance information see Pro-fax SG802N Product Stewardship Bulletin (PSB).

### General

|                             |   |
|-----------------------------|---|
| Material Status             | • Commercial: Active  |
| Literature <sup>1</sup>     | • <a href="#">Processing - Extrusion (English)</a><br>• <a href="#">Processing - Injection Molding (English)</a><br>• <a href="#">Processing - Mold Shrink (English)</a><br>• <a href="#">Technical Datasheet - ASTM (English)</a><br>• <a href="#">Technical Datasheet - ISO (English)</a> |
| UL Yellow Card <sup>2</sup> | • <a href="#">E363154-101519054</a>   |
| Search for UL Yellow Card   | • <a href="#">LyondellBasell Industries</a><br>• <a href="#">Pro-fax</a>  |
| Availability                | • North America   |
| Features                    | • Good Stiffness<br>• Impact Copolymer<br>• Low Temperature Impact Resistance   |
| Uses                        | • Automotive Applications<br>• Automotive Interior Parts<br>• Automotive Under the Hood<br>• Containers   |
| Forms                       | • Pellets   |
| Processing Method           | • Injection Molding   |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|---|-------------------------|-------------------------|-------------|
| 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) | 35 g/10 min             | 35 g/10 min             | ASTM D1238  |

| Mechanical             | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------------------|-------------------------|--------------------|-------------|
| Tensile Strength       |                         |                    |             |
| Yield <sup>4</sup>     | 3050 psi                | 21.0 MPa           | ASTM D638   |
| Yield, 73°F (23°C)     | 2900 psi                | 20.0 MPa           | ISO 527-2   |
| Tensile Elongation     |                         |                    |             |
| Yield                  | 5.0 %                   | 5.0 %              | ASTM D638   |
| Yield, 73°F (23°C)     | 5.0 %                   | 5.0 %              | ISO 527-2   |
| Flexural Modulus       |                         |                    |             |
| 1% Secant <sup>5</sup> | 160000 psi              | 1110 MPa           | ASTM D790A  |
| 73°F (23°C)            | 157000 psi              | 1080 MPa           | ISO 178     |

| Impact                         | Nominal Value (English)   | Nominal Value (SI)    | Test Method |
|--------------------------------|---------------------------|-----------------------|-------------|
| Charpy Notched Impact Strength |                           |                       | ISO 179     |
| -40°F (-40°C)                  | 2.0 ft·lb/in <sup>2</sup> | 4.3 kJ/m <sup>2</sup> |             |
| 73°F (23°C)                    | 5.2 ft·lb/in <sup>2</sup> | 11 kJ/m <sup>2</sup>  |             |
| Notched Izod Impact            |                           |                       |             |
| 73°F (23°C)                    | 2.6 ft·lb/in              | 140 J/m               | ASTM D256A  |
| -40°F (-40°C)                  | 2.1 ft·lb/in <sup>2</sup> | 4.4 kJ/m <sup>2</sup> | ISO 180     |
| 73°F (23°C)                    | 5.2 ft·lb/in <sup>2</sup> | 11 kJ/m <sup>2</sup>  | ISO 180     |



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| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    |             |
| 66 psi (0.45 MPa), Unannealed     | 210 °F                  | 99.0 °C            | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed     | 178 °F                  | 81.0 °C            | ISO 75-2/B  |
| 264 psi (1.8 MPa), Unannealed     | 126 °F                  | 52.0 °C            | ISO 75-2/A  |

### 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> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 2.0 in/min (50 mm/min)

<sup>5</sup> 0.051 in/min (1.3 mm/min)



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### 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

##### 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

