

# 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> • <a href="#">Processing - Injection Molding (English)</a> • <a href="#">Processing - Mold Shrink (English)</a> • <a href="#">Technical Datasheet - ASTM (English)</a> • <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> • <a href="#">Pro-fax</a>
Availability	• North America
Features	• Good Stiffness • Impact Copolymer • Low Temperature Impact Resistance
Uses	• Automotive Applications • Automotive Interior Parts • Automotive Under the Hood • 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

