

Pro-fax SG802N

Polypropylene Impact Copolymer

LyondellBasell Industries

Product Description

"Pro-fax" SG802N high flow, high impact polypropylene copolymer resin is designed for injection molding applications. This resin is available in pellet form.

General

Features	• Good Stiffness	• High Flow	• Low Temperature Impact Resistance
Uses	• Automotive Applications	• Automotive Interior Parts	• Industrial Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	Nominal Value Unit	Test Method
Specific Gravity	0.900 g/cm ³	ASTM D792B ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35 g/10 min	ASTM D1238

Mechanical

	Nominal Value Unit	Test Method
Tensile Strength		
Yield ²	21.4 MPa	ASTM D638
Yield, 23°C	21.0 MPa	ISO 527-2
Tensile Elongation		
Yield	5.0 %	ASTM D638
Yield, 23°C	4.0 %	ISO 527-2
Flexural Modulus		
1% Secant ³	1100 MPa	ASTM D790A
23°C	1100 MPa	ISO 178

Films

	Nominal Value Unit	Test Method
Dart Drop Test ⁴ (-29°C)	47.5 J	Internal Method

Impact

	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-40°C	4.3 kJ/m ²	
23°C	11 kJ/m ²	
Notched Izod Impact		
23°C	130 J/m	ASTM D256A
-40°C	4.9 kJ/m ²	ISO 180
23°C	10 kJ/m ²	ISO 180

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, Injection Molded	104 °C	ASTM D648
0.45 MPa, Unannealed	90.0 °C	ISO 75-2/B
1.8 MPa, Unannealed	51.0 °C	ISO 75-2/A

Notes

¹ Typical properties: these are not to be construed as specifications.

² 51 mm/min

³ 1.3 mm/min

⁴ Drop Weight Impact