

Technical Data Sheet

**Ferro Pp NPP00GD01BK**

Polypropylene
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Features	• Good Impact Resistance		
Automotive Specifications	• CHRYSLER MS-DB-543 Type B		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.920	0.918 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3800 psi	26.2 MPa	ASTM D638
Tensile Elongation (Break)	45 %	45 %	ASTM D638
Flexural Modulus	140000 psi	965 MPa	ASTM D790
Flexural Strength (Yield)	4500 psi	31.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm)	1.9 ft·lb/in	99 J/m	ASTM D256
Unnotched Izod Impact 73°F (23°C), 0.125 in (3.18 mm)	20 ft·lb/in	1100 J/m	ASTM D4812
Gardner Impact -40°F (-40°C)	25.0 in·lb	2.82 J	ASTM D3029
73°F (23°C)	140 in·lb	15.8 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	200 °F	93.3 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	125 °F	51.7 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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