

Technical Data Sheet

**Ferro Pp MPP20FJ11NA**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Filler / Reinforcement	• Mica, 21% Filler by Weight	
Features	• Homopolymer	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27 g/10 min	27 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	4300 psi	29.6 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	8.0 %	8.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	298000 psi	2050 MPa	
Tangent : 73°F (23°C)	365000 psi	2520 MPa	
Flexural Strength (73°F (23°C))	6400 psi	44.1 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.50 ft·lb/in	27 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	6.3 ft·lb/in	340 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	5.00 in·lb	0.565 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	250 °F	121 °C	
264 psi (1.8 MPa), Unannealed	150 °F	65.6 °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
Rear Temperature	400 to 415 °F	204 to 213 °C
Middle Temperature	410 to 420 °F	210 to 216 °C
Front Temperature	420 to 425 °F	216 to 218 °C
Nozzle Temperature	425 to 440 °F	218 to 227 °C
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

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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