

Technical Data Sheet



Ferro Nylon RNY20LA

Polyamide 6
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.29	1.29 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	18000 psi	124 MPa	ASTM D638
Tensile Elongation (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	800000 psi	5520 MPa	ASTM D790
Flexural Strength (Yield)	28000 psi	193 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	1.4 ft·lb/in	75 J/m	
Unnotched Izod Impact			ASTM D4812
73°F (23°C), 0.120 in (3.05 mm)	14 ft·lb/in	750 J/m	
Gardner Impact	10.0 in·lb	1.13 J	ASTM D3029
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	86	86	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	415 °F	213 °C	
264 psi (1.8 MPa), Unannealed	400 °F	204 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Suggested Max Moisture	0.10 %	0.10 %
Rear Temperature	510 to 530 °F	266 to 277 °C
Middle Temperature	510 to 530 °F	266 to 277 °C
Front Temperature	510 to 530 °F	266 to 277 °C
Nozzle Temperature	500 to 540 °F	260 to 282 °C
Mold Temperature	150 to 180 °F	66 to 82 °C
Injection Pressure	500 to 1500 psi	3.45 to 10.3 MPa
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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