

Technical Data Sheet

Ferro Nylon RNY20MA

Polyamide 66
LyondellBasell Industries
Engineering Plastics

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Forms	• Pellets

Physical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.28	1.28 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)	4.0 %	4.0 %	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)	13 ft·lb/in	690 J/m	
Gardner Impact	7.00 in·lb	0.791 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	490 °F	254 °C	
264 Psi (1.8 Mpa), Unannealed	475 °F	246 °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.