Technical Data Sheet

Ferro Nylon RNY30LA

Polyamide 6
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.40	1.40 g/cm³	ASTM D792
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	23000 psi	159 MPa	ASTM D638
Tensile Elongation (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	1.03E+6 psi	7100 MPa	ASTM D790
Flexural Strength (Yield)	34000 psi	234 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)	1.8 ft·lb/in	96 J/m	
Unnotched Izod Impact			ASTM D4812
73°f (23°c), 0.120 In (3.05 Mm)	16 ft·lb/in	850 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)	88	88	ASTM D2240
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	420 °F	216 °C	
264 Psi (1.8 Mpa), Unannealed	405 °F	207 °C	

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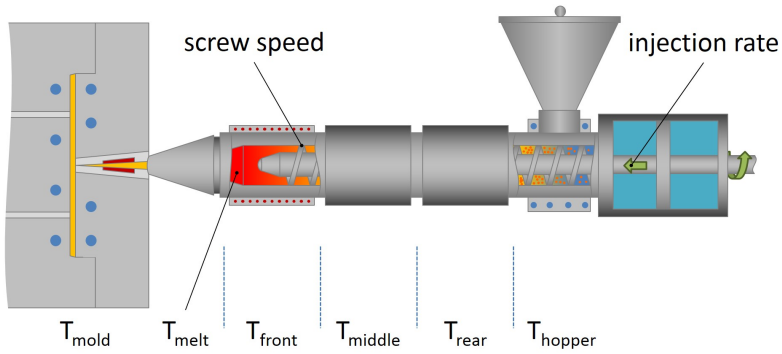

Injection	Nominal Value (English)	Nominal Value (SI)
Suggested Max Moisture	0.10 %	0.10 %
Rear Temperature	510 to 530 °F	266 to 277 °C
Middle Temperature	510 to 530 °F	266 to 277 °C
Front Temperature	510 to 530 °F	266 to 277 °C
Nozzle Temperature	500 to 540 °F	260 to 282 °C
Mold Temperature	150 to 180 °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.