

Ferro Nylon RNY20LA

Polyamide 6

Ferro Corporation

Message:

Ferro Nylon RNY20LA is a Polyamide 6 (Nylon 6) material filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	124	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength (Yield)	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.05 mm)	750	J/m	ASTM D256
Gardner Impact	1.13	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	213	°C	
1.8 MPa, Unannealed	204	°C	
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.10	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	266 to 277	°C	
Front Temperature	266 to 277	°C	
Nozzle Temperature	260 to 282	°C	
Mold Temperature	65.6 to 82.2	°C	
Injection Pressure	3.45 to 10.3	MPa	
Back Pressure	0.345 to 0.689	MPa	

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