

Wellamid® 42LN2-N

Polyamide 6
Wellman Engineering Resins

Message:

Wellamid® 42LN2-N is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

General Information			
Features	General Purpose		
Uses	General Purpose		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.2 to 1.6	%	
Flow : 23°C	1.1 to 1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	85.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	35	%	ISO 527-2
Flexural Modulus (23°C)	2700	MPa	ISO 178
Flexural Stress (23°C)	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	5.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	238 to 282	°C	
Middle Temperature	232 to 277	°C	
Front Temperature	227 to 271	°C	
Nozzle Temperature	227 to 293	°C	
Processing (Melt) Temp	227 to 293	°C	
Mold Temperature	71.1 to 93.3	°C	
Injection Pressure	34.5 to 138	MPa	
Back Pressure	0.345	MPa	
Screw Speed	30 to 120	rpm	

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Recommended distributors for this material

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