

Wellamid® GF13-66 XE-N

Polyamide 66

Wellman Engineering Resins

Message:

Wellamid® GF13-66 XE-N is a Polyamide 66 (Nylon 66) material filled with 13% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Typical application of Wellamid® GF13-66 XE-N: Automotive

General Information			
UL YellowCard	E44600-235498		
Filler / Reinforcement	Glass Fiber, 13% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.0 to 1.4	%	
Flow : 23°C	0.50 to 0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	115	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	5100	MPa	ISO 178
Flexural Stress (23°C)	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	4.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°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	277 to 304	°C	
Middle Temperature	277 to 304	°C	
Front Temperature	271 to 304	°C	
Nozzle Temperature	271 to 304	°C	
Processing (Melt) Temp	271 to 304	°C	
Mold Temperature	65.6 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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