

# Wellamid® GFT15N050-N2

Polyamide 66

Wellman Engineering Resins

## Message:

Wellamid® GFT15N050-N2 is a Polyamide 66 (Nylon 66) material filled with 15% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Wellamid® GFT15N050-N2 are:

Flame Rated

Impact Modified

Typical application of Wellamid® GFT15N050-N2: Automotive

General Information			
UL YellowCard	E44600-312913		
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Additive	Impact Modifier		
Features	Impact Modified		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	0.80 to 1.2	%	
Flow : 23°C	0.70 to 1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	95.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	4100	MPa	ISO 178
Flexural Stress (23°C)	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	15	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°C	ISO 3146
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	282 to 310	°C	
Middle Temperature	277 to 304	°C	

Front Temperature	271 to 299	°C
Nozzle Temperature	271 to 304	°C
Processing (Melt) Temp	271 to 304	°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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