

Wellamid® FRGS25-66-NBK3

Polyamide 66
Wellman Engineering Resins

Message:

Wellamid® FRGS25-66-NBK3 is a Polyamide 66 (Nylon 66) material filled with 25% glass bead. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Wellamid® FRGS25-66-NBK3 are:

Flame Rated

Flame Retardant

Typical application of Wellamid® FRGS25-66-NBK3: Automotive

General Information			
Filler / Reinforcement	Glass Bead,25% Filler by Weight		
Features	Flame Retardant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.0 to 1.4	%	
Flow : 23°C	1.0 to 1.4	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	%	ISO 527-2
Flexural Modulus (23°C)	4200	MPa	ISO 178
Flexural Stress (23°C)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	3.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Melting Temperature	260	°C	ISO 3146
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	V-0		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	271 to 282	°C	
Middle Temperature	266 to 277	°C	
Front Temperature	260 to 271	°C	
Nozzle Temperature	271 to 282	°C	

Processing (Melt) Temp	266 to 277	°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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