

Wellamid® GS40-60 42L-NBK1

Polyamide 6
Wellman Engineering Resins

Message:

Wellamid® GS40-60 42L-NBK1 is a Polyamide 6 (Nylon 6) material filled with 40% glass bead. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Wellamid® GS40-60 42L-NBK1: Flame Rated.

General Information			
Filler / Reinforcement	Glass Bead,40% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.0 to 1.4	%	
Flow : 23°C	1.1 to 1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	70.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	10	%	ISO 527-2
Flexural Modulus (23°C)	4500	MPa	ISO 178
Flexural Stress (23°C)	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	4.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°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	271 to 282	°C	
Middle Temperature	266 to 277	°C	
Front Temperature	260 to 271	°C	
Nozzle Temperature	254 to 277	°C	
Processing (Melt) Temp	249 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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