Wellamid® GF33-66 XE-N1

Polyamide 66

Wellman Engineering Resins

Message:

Wellamid® GF33-66 XE-N1 is a Polyamide 66 (Nylon 66) material filled with 33% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Wellamid® GF33-66 XE-N1: Flame Rated.
Typical application of Wellamid® GF33-66 XE-N1: Automotive

General Information			
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.34	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	100		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	186	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	8620	MPa	ASTM D790
Flexural Strength (Yield)	262	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	249	°C	ASTM D648
Melting Temperature	260	°C	
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**		**Test Method**
Flame Rating (0.794 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	65.6 to 76.7	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	282 to 304	°C	
Middle Temperature	271 to 288	°C	
Front Temperature	271 to 282	°C	
Nozzle Temperature	271 to 282	°C	
Processing (Melt) Temp	277 to 304	°C	

Mold Temperature	60.0 to 93.3	°C
Injection Pressure	34.5 to 138	MPa
Screw Speed	30 to 120	rpm

Recommended distributors for this material

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