

Lumid® GN2251BF

Polyamide 66

LG Chem Ltd.

Message:

Lumid®GN2251BF is a polyamide 66 (nylon 66) material, which contains a 25% glass fiber reinforced material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Lumid®The main features of the GN2251BF are:

flame retardant/rated flame

Flame Retardant

Lumid®Typical application fields of GN2251BF are: electrical/electronic applications

General Information			
UL YellowCard	E67171-100751190		
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Additive	Flame retardancy		
Features	Flame retardancy		
Uses	Electrical/Electronic Applications		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Water Absorption (23°C, 24 hr)	0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	123	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	7650	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	186	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	83	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	245	°C	ASTM D648
Peak Melting Temperature	260	°C	ASTM D3418
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	22	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	3.00		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		UL 94

1.50 mm	V-0	UL 94
3.00 mm	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	80.0 - 100	°C
Drying Time	4.0 - 5.0	hr
Rear Temperature	265 - 275	°C
Middle Temperature	270 - 280	°C
Front Temperature	270 - 285	°C
Nozzle Temperature	270 - 280	°C
Processing (Melt) Temp	270 - 290	°C
Mold Temperature	80.0 - 110	°C
Back Pressure	29.4 - 58.8	MPa
Screw Speed	30 - 60	rpm
Injection instructions		
Minimum Moisture Content: 0.09%		
NOTE		
1.	5.0 mm/min	
2.	50 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	

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