

Lumid® GN1001BF

Polyamide 66

LG Chem Ltd.

Message:

- Description
- Halogen Free Flame Retardant
- Applications
- Connectors

General Information			
UL YellowCard	E248280-100040890	E302314-530086	E67171-248541
Additive	Flame retardancy		
Features	Halogen-free		
	Flame retardancy		
Uses	Connector		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C, 3.20 mm)	0.90 - 1.6	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	78.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	18	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3330	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	113	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	230	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	85.0	°C	ASTM D648
Peak Melting Temperature	260	°C	ASTM D3418
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+14	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
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 to 0.820mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	255 - 270	°C	
Middle Temperature	260 - 275	°C	
Front Temperature	260 - 275	°C	
Nozzle Temperature	270 - 280	°C	
Processing (Melt) Temp	260 - 280	°C	
Mold Temperature	60.0 - 90.0	°C	
Back Pressure ⁵	0.490 - 1.96	MPa	
Screw Speed	60 - 200	rpm	

Injection instructions

Minimum Moisture Content: 0.01%

NOTE

- | | |
|----|----------------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 2.8 mm/min |
| 4. | 2.8 mm/min |
| 5. | Hydraulic Type |

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