

Lumid® GN1001AF

Polyamide 6
LG Chem Ltd.

Message:

Description
Halogen Free Flame Retardant
Applications
Electrical & Electronic(Switch)

General Information			
UL YellowCard	E248280-100040889	E302314-530070	E67171-248532
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Uses	Electrical/Electronic Applications		
	Switches		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792
Molding Shrinkage - Flow (23°C, 3.20 mm)	1.0 to 1.4	%	ASTM D955
Water Absorption (Equilibrium)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	76.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	15	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	3140	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 6.40 mm)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	190	°C	
1.8 MPa, Unannealed, 6.40 mm	60.0	°C	
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	21	kV/mm	ASTM D149

Dielectric Constant (23°C, 1 MHz)	3.00		ASTM D150
Arc Resistance	80.0	sec	ASTM D495
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 5.0	hr	
Suggested Max Moisture	0.12	%	
Rear Temperature	225 to 245	°C	
Middle Temperature	230 to 260	°C	
Front Temperature	240 to 270	°C	
Nozzle Temperature	240 to 270	°C	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	60.0 to 80.0	°C	
Back Pressure ⁵	0.490 to 1.96	MPa	
Screw Speed	60 to 200	rpm	

NOTE

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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT