

Lumid® GP2101BF

Polyamide 66

LG Chem Ltd.

Message:

- Description
- Flame Retardant
- Applications
- Connectors

General Information			
UL YellowCard	E248280-100040902	E302314-530081	E67171-248545
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	Flame retardancy		
Features	Flame retardancy		
Uses	Connector		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C, 3.20 mm)	0.70 - 1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.70	%	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)	95.6	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4900	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	142	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	232	°C	ASTM D648
Peak Melting Temperature	260	°C	ASTM D3418
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
RTI Imp (0.750 to 0.820mm)	65.0	°C	UL 746
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 (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.800 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 ⁵	0.981 - 2.94	MPa
Screw Speed	60 - 150	rpm
Injection instructions		

Minimum Moisture Content: 0.09%

NOTE

- | | |
|----|----------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | Hydraulic Type |

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