

Lumid® GP2151BF

Polyamide 66

LG Chem Ltd.

Message:

- Description
- Flame Retardant
- Applications
- Connectors

General Information			
UL YellowCard	E248280-100040904	E302314-530083	E67171-467726
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Additive	Flame retardancy		
Features	Flame retardancy		
Uses	Connector		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 - 1.1	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		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)	6570	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	6.0	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	255	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	240	°C	ASTM D648
Peak Melting Temperature	260	°C	ASTM D3418
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.750 mm	110	°C	UL 746
1.50 mm	110	°C	UL 746
3.00 mm	110	°C	UL 746
RTI Imp			UL 746
0.750 mm	110	°C	UL 746

1.50 mm	110	°C	UL 746
3.00 mm	110	°C	UL 746
RTI			UL 746
0.750 mm	120	°C	UL 746
1.50 mm	120	°C	UL 746
3.00 mm	120	°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			UL 94
0.750 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.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min

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