

Lumid® GP2301BF

Polyamide 66

LG Chem Ltd.

Message:

Description
Flame Retardant
Applications
IT/OA(Micro Switch, Connector)

General Information			
UL YellowCard	E248280-100040908	E302314-530088	E67171-248546
Features	Flame Retardant		
Uses	Connectors		
	Switches		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.90	%	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)	157	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.5	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	9810	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	245	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	255	°C	
1.8 MPa, Unannealed, 6.40 mm	250	°C	
Peak Melting Temperature	260	°C	ASTM D3418
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696

	100		
	100		
RTI Elec (0.750 mm)	120	°C	UL 746
	110		
	110		
RTI Imp (1.50 mm)	120	°C	UL 746
	110		
	110		
RTI Str (3.00 mm)	120	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength (1.00 mm)	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Comparative Tracking Index (CTI) ⁵	250	V	UL 746
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
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	265 to 275	°C	
Middle Temperature	270 to 280	°C	
Front Temperature	270 to 285	°C	
Nozzle Temperature	270 to 290	°C	

Processing (Melt) Temp	270 to 290	°C
Mold Temperature	80.0 to 110	°C
Back Pressure ⁶	0.981 to 2.94	MPa
Screw Speed	60 to 150	rpm

NOTE

- | | |
|----|----------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | Solution A |
| 6. | Hydraulic Type |

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