

Lumid® GP2251BF

Polyamide 66

LG Chem Ltd.

Message:

Description

Flame Retardant

Applications

IT/OA(Connector)

General Information			
UL YellowCard	E248280-100040905	E302314-530082	E67171-509863
Features	Flame Retardant		
Uses	Connectors		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 to 1.0	%	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)	147	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	8340	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	216	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	88	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	248	°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
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110

110

RTI Str (3.00 mm)	120	°C	UL 746
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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	400	V	UL 746
Comparative Tracking Index (Solution A)	400	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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