

Lumid® GP2151AF

Polyamide 6
LG Chem Ltd.

Message:

Description
Flame Retardant
Applications
Connectors

General Information			
UL YellowCard	E248280-100040903	E302314-530071	E302314-530075
	E67171-467722		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Connectors		
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)	0.40 to 0.90	%	ASTM D955
Water Absorption (Equilibrium)	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 (Break, 3.20 mm)	118	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.8	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5980	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	157	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	190	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D3418
RTI Elec			UL 746
0.750 mm	115	°C	
1.50 mm	115	°C	
3.00 mm	115	°C	
RTI Imp			UL 746
0.750 mm	110	°C	
1.50 mm	110	°C	

3.00 mm	110	°C	
RTI Str			UL 746
0.750 mm	120	°C	
1.50 mm	120	°C	
3.00 mm	120	°C	
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)	3.80		ASTM D150
Arc Resistance ⁵	90.0	sec	ASTM D495
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
	V-0		
1.50 mm	5VA		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 5.0	hr	
Rear Temperature	240 to 260	°C	
Middle Temperature	245 to 265	°C	
Front Temperature	250 to 270	°C	
Nozzle Temperature	255 to 270	°C	
Processing (Melt) Temp	255 to 270	°C	
Mold Temperature	80.0 to 100	°C	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	23°C		

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