

Lumid® GP2259AFL

Polyamide 6
LG Chem Ltd.

Message:

Description
Flame Retardant
Applications
E&E(Switch)

General Information			
UL YellowCard	E248280-100040906	E67171-484658	
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
	Switches		
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)	0.40 to 0.90	%	ASTM D955
Water Absorption (Equilibrium)	0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	127	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	8530	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	196	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 (1.8 MPa, Unannealed, 6.40 mm)	210	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	4.1E-5	cm/cm/°C	ASTM D696
RTI Imp			UL 746
0.800 mm	90.0	°C	
3.00 mm	90.0	°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
0.800 mm	V-2		
3.00 mm	V-2		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 5.0	hr	
Rear Temperature	230 to 250	°C	
Middle Temperature	230 to 250	°C	
Front Temperature	230 to 250	°C	
Nozzle Temperature	230 to 250	°C	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	60.0 to 150	°C	
Back Pressure ⁶	10.0 to 30.0	MPa	
NOTE			
1.	50 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	23°C		
6.	Hydraulic Type		

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