

## LG Chemical LUMID GP2251AF PA6+GF25%, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

### Material Notes:

Feature: Injection Molding, PA6+GF25%, Flame Retardant Application: IT/OA (Micro Switch) CAS No. 25038-54-4, 65997-17-3, 88497-56-7, 1309-64-4 and 138265-88-0 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUMID-GP2251AF-PA6GF25-Flame-Retardant.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP2251AF-PA6GF25-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM D792
Water Absorption	0.70 % @Temperature 23.0 Â°C, Time 86400 sec	0.70 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0090 cm/cm @Thickness 3.20 mm	0.0040 - 0.0090 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	162 MPa @Thickness 3.20 mm	23500 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	3.0 % @Thickness 3.20 mm	3.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	221 MPa @Thickness 3.20 mm	32000 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	8.83 GPa @Thickness 3.20 mm	1280 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	1.08 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	2.02 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.0 Âµm/m-Â°C	22.8 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418

Thermal Properties <small>Deflection Temperature at 1.8 MPa (204 psi)</small>	190 Â°C Metric	374 Â°F English	Comments ; ASTM D548
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	120 Â°C	248 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	120 Â°C	248 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	110 Â°C	230 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	110 Â°C	230 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	110 Â°C	230 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	115 Â°C	239 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	115 Â°C	239 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	115 Â°C	239 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	V-0	V-0	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	

Thermal Properties	Metric @ Thickness >=3.00 mm	English @ Thickness >=0.118 in	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.8	3.8	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	90 sec	90 sec	ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 260 Â°C	446 - 500 Â°F	Injection Molding
Middle Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Front Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Nozzle Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Melt Temperature	240 - 265 Â°C	464 - 509 Â°F	Injection Molding
Drying Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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