

## LG Chemical LUMID GP2430A(W) PA6+GF43%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

### Material Notes:

Feature: Injection Molding, PA6+GF43%, General Purpose  
 Application: Automotive (Air Intake Manifold, Cooling Fan)  
 CAS No. 25038-54-4 and 65997-17-3  
 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUMID-GP2430AW-PA6GF43-General-Purpose.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP2430AW-PA6GF43-General-Purpose.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Water Absorption	1.0 %	1.0 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm @Thickness 3.20 mm	0.0030 - 0.0070 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	211 MPa @Thickness 3.20 mm	30600 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	294 MPa @Thickness 3.20 mm	42700 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	11.8 GPa @Thickness 3.20 mm	1710 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	1.37 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	2.57 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 Âµm/m-Â°C	17.2 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C @Thickness 6.40 mm	410 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
	65.0 Â°C	149 Â°F	

UL RTI Electrical Thermal Properties	Metric @Thickness >=0.750 mm	English @Thickness >=0.0295 in	Comments
UL RTI, Mechanical with Impact	65.0 Å°C	149 Å°F	
UL RTI, Mechanical without Impact	65.0 Å°C	149 Å°F	
Flammability, UL94	HB	HB	

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
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
High Voltage Arc-Tracking Rate, HVTR	25.4 - 50.0 mm/min	1.00 - 1.97 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 270 Å°C	482 - 518 Å°F	Injection Molding
Middle Barrel Temperature	260 - 285 Å°C	500 - 545 Å°F	Injection Molding
Front Barrel Temperature	260 - 290 Å°C	500 - 554 Å°F	Injection Molding
Nozzle Temperature	260 - 290 Å°C	500 - 554 Å°F	Injection Molding
Melt Temperature	260 - 290 Å°C	500 - 554 Å°F	Injection Molding
Mold Temperature	80.0 - 100 Å°C	176 - 212 Å°F	Injection Molding
Drying Temperature	80.0 - 100 Å°C	176 - 212 Å°F	Injection Molding

Processing Properties

Metric 4.00 - 5.00 hour

English 4.00 - 5.00 hour

Comments Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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