

## LG Chemical LUMID GP1100A(W) PA6, Low Viscosity

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Feature: Injection Molding, PA6, Low Viscosity  
 Application: Industrial Material, Sport Parts  
 CAS No. 25038-54-4  
 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUMID-GP1100AW-PA6-Low-Viscosity.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP1100AW-PA6-Low-Viscosity.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	1.7 %	1.7 %	ASTM D570
Linear Mold Shrinkage, Flow	0.010 - 0.014 cm/cm @Thickness 3.20 mm	0.010 - 0.014 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	79.4 MPa @Thickness 3.20 mm	11500 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	100 % @Thickness 3.20 mm	100 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	108 MPa @Thickness 3.20 mm	15600 psi @Thickness 0.126 in	2.8mm/min; ASTM D790
Flexural Modulus	2.65 GPa @Thickness 3.20 mm	384 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	0.918 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	170 Â°C @Thickness 6.40 mm	338 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa	60.0 Â°C	140 Â°F	Unannealed; ASTM D648

(264 psi) Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
UL RTI, Electrical	65.0 Å°C @Thickness >=1.50 mm	149 Å°F @Thickness >=0.0591 in	
	65.0 Å°C @Thickness >=3.00 mm	149 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	65.0 Å°C @Thickness >=1.50 mm	149 Å°F @Thickness >=0.0591 in	
	65.0 Å°C @Thickness >=3.00 mm	149 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	65.0 Å°C @Thickness >=1.50 mm	149 Å°F @Thickness >=0.0591 in	
	65.0 Å°C @Thickness >=7.00 mm	149 Å°F @Thickness >=0.276 in	
Flammability, UL94	V-2 @Thickness >=1.60 mm	V-2 @Thickness >=0.0630 in	
	V-2 @Thickness >=3.20 mm	V-2 @Thickness >=0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	19.0 kV/mm @Thickness 1.00 mm	483 kV/in @Thickness 0.0394 in	ASTM D149
Arc Resistance	195 sec	195 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	255 - 265 Å°C	491 - 509 Å°F	Injection Molding
Middle Barrel Temperature	230 - 260 Å°C	446 - 500 Å°F	Injection Molding

Front Barrel Temperature Processing Properties	240 - 270 Å°C Metric	464 - 518 Å°F English	Injection Molding Comments
Nozzle Temperature	240 - 270 Å°C	464 - 518 Å°F	Injection Molding
Melt Temperature	240 - 270 Å°C	464 - 518 Å°F	Injection Molding
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	Injection Molding
Drying Temperature	80.0 - 100 Å°C	176 - 212 Å°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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