

LG Chemical LUMID GP1000B(W) PA66, General Purpose, Low Viscosity

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Feature: Injection Molding, PA66, General Purpose, Low Viscosity
 Application: Buckles, Chair Nob
 CAS No. 32131-17-2
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP1000BW-PA66-General-Purpose-Low-Viscosity.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	1.7 % @Temperature 23.0 Â°C, Time 86400 sec	1.7 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.10	0.10	Injection Molding
Linear Mold Shrinkage, Flow	0.013 - 0.020 cm/cm @Thickness 3.20 mm	0.013 - 0.020 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	80.4 MPa @Thickness 3.20 mm	11700 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	50 % @Thickness 3.20 mm	50 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	113 MPa @Thickness 3.20 mm	16400 psi @Thickness 0.126 in	2.8mm/min; ASTM D790
Flexural Modulus	2.75 GPa @Thickness 3.20 mm	398 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 23.0 mm, Temperature 3.20 Â°C	0.918 ft-lb/in @Thickness 0.906 in, Temperature 37.8 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	230 Â°C @Thickness 6.40 mm	446 Â°F @Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Â°C @Thickness 6.40 mm	167 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	65.0 Â°C @Thickness >=0.700 mm	149 Â°F @Thickness >=0.0276 in	
UL RTI, Mechanical with Impact	65.0 Â°C @Thickness >=0.700 mm	149 Â°F @Thickness >=0.0276 in	
UL RTI, Mechanical without Impact	65.0 Â°C @Thickness >=0.700 mm	149 Â°F @Thickness >=0.0276 in	
Flammability, UL94	V-2 @Thickness >=0.700 mm	V-2 @Thickness >=0.0276 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	23.0 kV/mm @Thickness 1.00 mm	584 kV/in @Thickness 0.0394 in	ASTM D149
Arc Resistance	190 sec	190 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	255 - 270 Â°C	491 - 518 Â°F	Injection Molding
Middle Barrel Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Front Barrel Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Nozzle Temperature	260 - 280 Â°C	500 - 536 Â°F	Injection Molding
Melt Temperature	260 - 280 Â°C	500 - 536 Â°F	Injection Molding
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	Injection Molding
Drying Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding

Processing Properties	Metric	English	Comments
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

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