

LG Chemical LUMID GP2500B(W) PA66+GF50%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA66+GF50%, General Purpose
Application: Automotive (Gear Shift Housing)
CAS No. 32131-17-2 and 65997-17-3
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP2500BW-PA66GF50-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570
Maximum Moisture Content	0.090	0.090	Injection Molding
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm @Thickness 3.20 mm	0.0020 - 0.0050 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	230 MPa @Thickness 3.20 mm	33400 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	2.0 % @Thickness 3.20 mm	2.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	329 MPa @Thickness 3.20 mm	47600 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	14.27 GPa @Thickness 3.20 mm	2069 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	2.76 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	ASTM D696
Melting Point	260 Â°C	500 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	Unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	255 Å°C @Thickness 6.40 mm	491 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	120 Å°C @Thickness >=0.750 mm	248 Å°F @Thickness >=0.0295 in	
	120 Å°C @Thickness >=1.50 mm	248 Å°F @Thickness >=0.0591 in	
	120 Å°C @Thickness >=3.00 mm	248 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	110 Å°C @Thickness >=0.750 mm	230 Å°F @Thickness >=0.0295 in	
	110 Å°C @Thickness >=1.50 mm	230 Å°F @Thickness >=0.0591 in	
	110 Å°C @Thickness >=3.00 mm	230 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	120 Å°C @Thickness >=0.750 mm	248 Å°F @Thickness >=0.0295 in	
	120 Å°C @Thickness >=1.50 mm	248 Å°F @Thickness >=0.0591 in	
	120 Å°C @Thickness >=3.00 mm	248 Å°F @Thickness >=0.118 in	
Flammability, UL94	HB @Thickness >=0.750 mm	HB @Thickness >=0.0295 in	
	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	
	HB @Thickness >=3.00 mm	HB @Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	25.0 kV/mm @Thickness 1.00 mm	635 kV/in @Thickness 0.0394 in	ASTM D149
Hot Wire Ignition, HWI	15 - 30 sec @Thickness >=0.750 mm	15 - 30 sec @Thickness >=0.0295 in	
	15 - 30 sec @Thickness >=1.50 mm	15 - 30 sec @Thickness >=0.0591 in	
	15 - 30 sec @Thickness >=3.00 mm	15 - 30 sec @Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 0.750 mm	>= 120 arcs @Thickness 0.0295 in	
	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	
	>= 120 arcs @Thickness 3.00 mm	>= 120 arcs @Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 270 Â°C	500 - 518 Â°F	Injection Molding
Middle Barrel Temperature	270 - 285 Â°C	518 - 545 Â°F	Injection Molding
Front Barrel Temperature	270 - 290 Â°C	518 - 554 Â°F	Injection Molding
Nozzle Temperature	270 - 290 Â°C	518 - 554 Â°F	Injection Molding
Melt Temperature	270 - 295 Â°C	518 - 563 Â°F	Injection Molding
Mold Temperature	80.0 - 110 Â°C	176 - 230 Â°F	Injection Molding
Drying Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Dry Time			Injection Molding

Processing Properties	4.00 - 5.00 hour Metric	4.00 - 5.00 hour 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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