

LG Chemical LUMID GP2200B(W) PA66+GF20%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA66+GF20%, General Purpose
 Application: Automotive Parts
 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-GP2200BW-PA66GF20-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	1.0 %	1.0 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.010 cm/cm @Thickness 3.20 mm	0.0060 - 0.010 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	157 MPa @Thickness 3.20 mm	22800 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	4.0 % @Thickness 3.20 mm	4.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	221 MPa @Thickness 6.40 mm	32000 psi @Thickness 0.252 in	3mm/min; ASTM D790
Flexural Modulus	6.86 GPa @Thickness 6.40 mm	996 ksi @Thickness 0.252 in	3mm/min; ASTM D790
Izod Impact, Notched	0.785 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	1.47 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C	22.2 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 @Thickness 6.40 mm	500 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties (264 psi)	245 Â°C Metric	473 Â°F English	Comments CR-1100000, ASTM D648
	@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	
UL RTI, Mechanical with Impact	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	110 Â°C	230 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
UL RTI, Mechanical without Impact	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	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	
Flammability, UL94	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	HB	HB	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0	4.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
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	265 - 275 Â°C	509 - 527 Â°F	Injection Molding
Middle Barrel Temperature	270 - 280 Â°C	518 - 536 Â°F	Injection Molding
Front Barrel Temperature	270 - 285 Â°C	518 - 545 Â°F	Injection Molding
Nozzle Temperature	270 - 280 Â°C	518 - 536 Â°F	Injection Molding
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 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
Back Pressure			Injection Molding

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

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