

LG Chemical LUMID GP2300A(W) PA6+GF30%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA6+GF30%, General Purpose
 Application: Automotive (Side Mirror Base Plate)
 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-GP2300AW-PA6GF30-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Water Absorption	1.1 %	1.1 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0090 cm/cm @Thickness 3.20 mm	0.0040 - 0.0090 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	177 MPa @Thickness 3.20 mm	25600 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	255 MPa @Thickness 6.40 mm	37000 psi @Thickness 0.252 in	1.3mm/min; ASTM D790
Flexural Modulus	8.34 GPa @Thickness 6.40 mm	1210 ksi @Thickness 0.252 in	3mm/min; ASTM D790
Izod Impact, Notched	1.18 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	2.20 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 Âµm/m-Â°C	19.4 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

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 1.00 mm	508 kV/in @Thickness 0.0394 in	ASTM D149
Arc Resistance	130 sec	130 sec	ASTM D495
Hot Wire Ignition, HWI	15 - 30 sec @Thickness >=0.750 mm	15 - 30 sec @Thickness >=0.0295 in	
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 0.750 mm	>= 120 arcs @Thickness 0.0295 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	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 Processing Properties	80.0 - 100 Å°C Metric	176 - 212 Å°F English	Injection Molding Comments
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

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