

LG Chemical LUMID GP2130A(W) PA6+GF13%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 10% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA6+GF13%, General Purpose
 Application: Automotive Parts
 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-GP2130AW-PA6GF13-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	1.3 %	1.3 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0070 - 0.012 cm/cm @Thickness 3.20 mm	0.0070 - 0.012 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	127 MPa @Thickness 3.20 mm	18500 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	5.0 % @Thickness 3.20 mm	5.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	167 MPa @Thickness 3.20 mm	24200 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	4.71 GPa @Thickness 3.20 mm	683 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.588 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	1.10 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 Åµm/m-Å°C	27.8 Åµin/in-Å°F	ASTM D696
Melting Point	220 Å°C	428 Å°F	ASTM D3418
UL RTI, Electrical	65.0 Å°C @Thickness >=0.750 mm	149 Å°F @Thickness >=0.0295 in	
	65.0 Å°C	149 Å°F	

UL RTI, Mechanical with Impact Thermal Properties	Metric @Thickness >=0.750 mm	English @Thickness >=0.0295 in	Comments
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+15 ohm-cm	1.00e+15 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	160 sec	160 sec	ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	
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	235 - 255 Å°C	455 - 491 Å°F	Injection Molding
Middle Barrel Temperature	240 - 270 Å°C	464 - 518 Å°F	Injection Molding
Front Barrel Temperature	240 - 270 Å°C	464 - 518 Å°F	Injection Molding
Nozzle Temperature	250 - 280 Å°C	482 - 536 Å°F	Injection Molding
Melt Temperature	250 - 280 Å°C	482 - 536 Å°F	Injection Molding
Mold Temperature	80.0 - 100 Å°C	176 - 212 Å°F	Injection Molding
Drying Temperature	80.0 - 100 Å°C	176 - 212 Å°F	Injection Molding

Processing Properties

Metric 5.00 hour

English 5.00 hour

Comments
Welding

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