

LG Chemical LUMID GP3150A(W) PA6+MF15%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Mineral Filled

Material Notes:

Feature: Injection Molding, PA6+MF15%, General Purpose
Application: E&E (Rice Coover Housing)
CAS No. 25038-54-4 and 14807-96-6
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP3150AW-PA6MF15-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Water Absorption	1.3 %	1.3 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0090 - 0.013 cm/cm @Thickness 3.20 mm	0.0090 - 0.013 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Elongation at Break	6.0 % @Thickness 3.20 mm	6.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	108 MPa @Thickness 3.20 mm	15600 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	3.63 GPa @Thickness 3.20 mm	526 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.392 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	0.735 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.0 Âµm/m-Â°C	31.7 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C @Thickness 6.40 mm	401 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C @Thickness 6.40 mm	203 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties UL RTI, Electrical	65.0 Â°C Metric	149 Â°F English	Comments
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
UL RTI, Mechanical with Impact	65.0 Â°C @Thickness >=0.750 mm	149 Â°F @Thickness >=0.0295 in	
UL RTI, Mechanical without Impact	65.0 Â°C @Thickness >=0.750 mm	149 Â°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	5.7 @Frequency 1.00e+6 Hz	5.7 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	22.0 kV/mm @Thickness 1.00 mm	559 kV/in @Thickness 0.0394 in	ASTM D149
Arc Resistance	185 sec	185 sec	ASTM D495
Hot Wire Ignition, HWI	7.0 - 15 sec @Thickness >=0.750 mm	7.0 - 15 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	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 255 Â°C	446 - 491 Â°F	Injection Molding
Middle Barrel Temperature	245 - 260 Â°C	473 - 500 Â°F	Injection Molding
Front Barrel Temperature	245 - 270 Â°C	473 - 518 Â°F	Injection Molding
Nozzle Temperature	250 - 270 Â°C	482 - 518 Â°F	Injection Molding
Melt Temperature	250 - 270 Â°C	482 - 518 Â°F	Injection Molding

Mold Temperature Processing Properties	60.0 - 80.0 Â°C Metric	140 - 176 Â°F English	Injection Molding Comments
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

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