

LG Chemical LUMID GN1001AF PA6, Halogen Free Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Feature: Injection Molding, PA6, Halogen Free Flame Retardant
Application: Electrical & Electronic (Switch)
CAS No. 25038-54-4 and 37640-57-6
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GN1001AF-PA6-Halogen-Free-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	1.3 % @Temperature 23.0 Â°C, Time 86400 sec	1.3 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.010 - 0.014 cm/cm @Thickness 3.20 mm	0.010 - 0.014 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength, Yield	78.5 MPa @Thickness 3.20 mm	11400 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	108 MPa @Thickness 6.40 mm	15600 psi @Thickness 0.252 in	2.8mm/min; ASTM D790
Flexural Modulus	2.84 GPa @Thickness 6.40 mm	412 ksi @Thickness 0.252 in	2.8mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	0.918 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	190 Â°C @Thickness 6.40 mm	374 Â°F @Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C @Thickness 6.40 mm	140 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	65.0 Â°C @Thickness 0.750 - 0.820 mm	149 Â°F @Thickness 0.0295 - 0.0323 in	
UL RTI, Mechanical with Impact	65.0 Â°C @Thickness 0.750 - 0.820 mm	149 Â°F @Thickness 0.0295 - 0.0323 in	
UL RTI, Mechanical without Impact	65.0 Â°C @Thickness 0.750 - 0.820 mm	149 Â°F @Thickness 0.0295 - 0.0323 in	
Flammability, UL94	V-2 @Thickness >=0.800 mm	V-2 @Thickness >=0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	21.0 kV/mm @Thickness 1.00 mm	533 kV/in @Thickness 0.0394 in	ASTM D149
Arc Resistance	80 sec	80 sec	ASTM D495
Hot Wire Ignition, HWI	15 - 30 sec @Thickness >=0.800 mm	15 - 30 sec @Thickness >=0.0315 in	
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 0.800 mm	>= 120 arcs @Thickness 0.0315 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	225 - 245 Â°C	437 - 473 Â°F	Injection Molding
Middle Barrel Temperature			Injection Molding

Processing Properties	230 - 260 Â°C Metric	446 - 500 Â°F English	Comments
Front Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Nozzle Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Melt Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 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

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