

LG Chemical LUMID GP2101BF PA66+GF10%, Halogen Free Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA66+GF10%, Halogen Free Flame Retardant
Application: Connectors
CAS No. 32131-17-2, 25038-54-4, 65997-17-3, 88497-56-7, 1309-64-4 and 138265-88-0
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP2101BF-PA66GF10-Halogen-Free-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Water Absorption	0.70 % @Temperature 23.0 Â°C, Time 86400 sec	0.70 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.090	0.090	Injection Molding
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
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	95.6 MPa @Thickness 3.20 mm	13900 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	5.0 % @Thickness 3.20 mm	5.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	142 MPa @Thickness 6.40 mm	20600 psi @Thickness 0.252 in	2.8mm/min; ASTM D790
Flexural Modulus	4.90 GPa @Thickness 6.40 mm	711 ksi @Thickness 0.252 in	2.8mm/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	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ASTM D696

Melting Point Thermal Properties	260 Â°C Metric	500 Â°F English	ASTM D3418 Comments
Deflection Temperature at 1.8 MPa (264 psi)	232 Â°C @Thickness 6.40 mm	450 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-0 @Thickness >=0.800 mm	V-0 @Thickness >=0.0315 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	

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 - 110 Â°C	176 - 230 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	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

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