

LG Chemical LUMID GP2301BF PA 66+GF30%, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA 66+GF30%, Flame Retardant
Application: IT/OA (Micro Switch, Connector)
CAS No. 32131-17-2, 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-GP2301BF-PA-66GF30-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.63 g/cc	1.63 g/cc	ASTM D792
Water Absorption	0.60 % @Temperature 23.0 Â°C, Time 86400 sec	0.60 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.10	0.10	Injection Molding
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	120	120	ASTM D785
Tensile Strength, Yield	172 MPa @Thickness 3.20 mm	24900 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	2.0 % @Thickness 3.20 mm	2.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	245 MPa @Thickness 3.20 mm	35600 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	8.53 GPa @Thickness 3.20 mm	1240 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.981 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.84 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	ASTM D696

Melting Point Thermal Properties	260 Â°C Metric	500 Â°F English	ASTM D3418 Comments
Deflection Temperature at 0.46 MPa (66 psi)	255 Â°C @Thickness 6.40 mm	491 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C @Thickness 6.40 mm	482 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	120 Â°C @Thickness >=0.750 mm	248 Â°F @Thickness >=0.0295 in	
	120 Â°C @Thickness >=1.50 mm	248 Â°F @Thickness >=0.0591 in	
	120 Â°C @Thickness >=3.00 mm	248 Â°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	100 Â°C @Thickness >=0.750 mm	212 Â°F @Thickness >=0.0295 in	
	110 Â°C @Thickness >=1.50 mm	230 Â°F @Thickness >=0.0591 in	
	110 Â°C @Thickness >=3.00 mm	230 Â°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	100 Â°C @Thickness >=0.750 mm	212 Â°F @Thickness >=0.0295 in	
	110 Â°C @Thickness >=1.50 mm	230 Â°F @Thickness >=0.0591 in	
	110 Â°C @Thickness >=3.00 mm	230 Â°F @Thickness >=0.118 in	
Flammability, UL94	V-0 @Thickness >=0.750 mm	V-0 @Thickness >=0.0295 in	
	V-0 @Thickness >=1.50 mm	V-0 @Thickness >=0.0591 in	

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Glow Wire Test	775 Â°C	1430 Â°F	IEC 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	775 Â°C	1430 Â°F	IEC 60695-2-13
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	775 Â°C	1430 Â°F	IEC 60695-2-13
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.0	3.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	Solution A; IEC 60112
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	

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 - 290 Â°C	518 - 554 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

Processing Properties	Metric	English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China