

LG Chemical LUMID GP2151AF PA6+GF15%, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA6+GF15%, Flame Retardant
Application: Connectors
CAS No. 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-GP2151AF-PA6GF15-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 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
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
Elongation at Break	2.8 % @Thickness 3.20 mm	2.8 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	157 MPa @Thickness 6.40 mm	22800 psi @Thickness 0.252 in	1.3mm/min; ASTM D790
Flexural Modulus	5.98 GPa @Thickness 6.40 mm	868 ksi @Thickness 0.252 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.588 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.10 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	180 Â°C @Thickness 6.40 mm	356 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	120 Â°C @Thickness >=0.750	248 Â°F @Thickness >=0.0295	

Thermal Properties	^{mm} Metric	ⁱⁿ English	Comments
	120 Â°C	248 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	110 Â°C	230 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	110 Â°C	230 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	110 Â°C	230 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	115 Â°C	239 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	115 Â°C	239 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	115 Â°C	239 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 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	
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	Injection Molding
Middle Barrel Temperature	245 - 265 Â°C	473 - 509 Â°F	Injection Molding
Front Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	Injection Molding
Nozzle Temperature	255 - 270 Â°C	491 - 518 Â°F	Injection Molding
Melt Temperature	255 - 270 Â°C	491 - 518 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 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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