

LG Chemical LUMID GN-2251BF Flame Retardant PA Alloy

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Feature: Injection Molding, Flame Retardant PA Alloy Application: E&E parts Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GN-2251BF-Flame-Retardant-PA-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D785
Tensile Strength, Yield	123 MPa @Thickness 3.20 mm	17800 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	3.0 % @Thickness 3.20 mm	3.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	186 MPa @Thickness 3.20 mm	27000 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	7.65 GPa @Thickness 3.20 mm	1110 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.834 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.56 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	260 Â°C	500 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	245 Â°C @Thickness 6.40 mm	473 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	65.0 Â°C Metric	149 Â°F English	Comments
UL RTI, Electrical	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	65.0 Â°C	149 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	65.0 Â°C	149 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	65.0 Â°C	149 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	65.0 Â°C	149 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	65.0 Â°C	149 Â°F	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	65.0 Â°C	149 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	65.0 Â°C	149 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=0.800 mm	@Thickness >=0.0315 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
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
	3.0	3.0	

Dielectric Constant Electrical Properties	Metric @Frequency 1.00e+6 Hz	English @Frequency 1.00e+6 Hz	ASTM D150 Comments
Dielectric Strength	22.0 kV/mm @Thickness 1.00 mm	559 kV/in @Thickness 0.0394 in	ASTM D149

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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