

LG Chemical LUMID GP3200A(W) PA6+MF20%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Mineral Filled

Material Notes:

Feature: Injection Molding, PA6+MF23%, High ImpactPA6+MF15%, General PurposeApplication: E&E (Rice Coorer Housing)CAS No. 25038-54-4 and 9010-79-1Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP3200AW-PA6MF20-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm @Thickness 3.20 mm	0.0080 - 0.012 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	73.5 MPa @Thickness 3.20 mm	10700 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	5.0 % @Thickness 3.20 mm	5.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	113 MPa @Thickness 3.20 mm	16400 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	4.31 GPa @Thickness 3.20 mm	626 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	0.918 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	56.0 Âµm/m-Â°C	31.1 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C @Thickness 6.40 mm	410 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Strength at 1.8 MPa (264 psi)	130 Â°C	266 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	65.0 Â°C	149 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
UL RTI, Mechanical without Impact	65.0 Â°C	149 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
Flammability, UL94	HB	HB	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	5.7	5.7	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	185 sec	185 sec	ASTM D495
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 255 Â°C	446 - 491 Â°F	Injection Molding
Middle Barrel Temperature	245 - 260 Â°C	473 - 500 Â°F	Injection Molding
Front Barrel Temperature	245 - 270 Â°C	473 - 518 Â°F	Injection Molding

Nozzle Temperature Processing Properties	250 - 270 Â°C Metric	482 - 518 Â°F English	Injection Molding Comments
Melt Temperature	250 - 270 Â°C	482 - 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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