

LG Chemical LUMID GP3400A(W) PA6+MF40%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Mineral Filled

Material Notes:

Feature: Injection Molding, PA6+MF40%, General Purpose
Application: E&E (Rice Cooker Housing)
CAS No. 25038-54-4 and 14807-96-6
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP3400AW-PA6MF40-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Water Absorption	1.0 %	1.0 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm @Thickness 3.20 mm	0.0040 - 0.0080 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	83.4 MPa @Thickness 3.20 mm	12100 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	127 MPa @Thickness 3.20 mm	18500 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	6.86 GPa @Thickness 3.20 mm	996 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.686 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.29 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	51.0 Âµm/m-Â°C	28.3 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
Temperature at 1.8 MPa (264 psi)	180 Â°C	356 Â°F	Unannealed; 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	
	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	65.0 Â°C	149 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	105 Â°C	221 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
UL RTI, Mechanical without Impact	65.0 Â°C	149 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	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	
Flammability, UL94	HB	HB	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
	4.0	4.0	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	22.0 kV/mm @Thickness 1.00 mm	559 kV/in @Thickness 0.0394 in	ASTM D149
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	Injection Molding
Middle Barrel Temperature	255 - 275 Â°C	491 - 527 Â°F	Injection Molding
Front Barrel Temperature	255 - 275 Â°C	491 - 527 Â°F	Injection Molding
Nozzle Temperature	260 - 280 Â°C	500 - 536 Â°F	Injection Molding
Melt Temperature	260 - 280 Â°C	500 - 536 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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