

LG Chemical LUMID GP3400B(W) PA66+MF40%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

Feature: Injection Molding, PA66+MF40%, General Purpose
 Application: Automotive (Engine Cover)
 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-GP3400BW-PA66MF40-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570
Maximum Moisture Content	0.090	0.090	Injection Molding
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	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	5.0 % @Thickness 3.20 mm	5.0 % @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	0.314 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	0.588 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	240 Â°C @Thickness 6.40 mm	464 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Strength at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	265 - 275 Å°C	509 - 527 Å°F	Injection Molding
Middle Barrel Temperature	270 - 280 Å°C	518 - 536 Å°F	Injection Molding
Front Barrel Temperature	270 - 285 Å°C	518 - 545 Å°F	Injection Molding
Nozzle Temperature	270 - 295 Å°C	518 - 563 Å°F	Injection Molding
Melt Temperature	270 - 290 Å°C	518 - 554 Å°F	Injection Molding
Mold Temperature	80.0 - 110 Å°C	176 - 230 Å°F	Injection Molding
Drying Temperature	80.0 - 100 Å°C	176 - 212 Å°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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