

LG Chemical LUMID LW4403A(W) PA66+GF/MF40%, Low Warpage

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Mineral Filled

Material Notes:

Feature: Injection Molding, PA66+GF/MF40%, Low Warpage Application: Automotive (Timing Belt Cover) CAS No. 25038-54-4, 13983-17-0 and 65997-17-3 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-LW4403AW-PA66GFMF40-Low-Warpage.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Water Absorption	0.90 %	0.90 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.011 cm/cm @Thickness 3.20 mm	0.0050 - 0.011 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	127 MPa @Thickness 3.20 mm	18500 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	4.0 % @Thickness 3.20 mm	4.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	196 MPa @Thickness 3.20 mm	28400 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	7.35 GPa @Thickness 3.20 mm	1070 ksi @Thickness 0.126 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
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C @Thickness 6.40 mm	392 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric 14 ohm-cm	English 4 ohm-cm	Comments
Dielectric Constant	3.0	3.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	130 sec	130 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	245 - 265 Å°C	473 - 509 Å°F	Injection Molding
Middle Barrel Temperature	255 - 280 Å°C	491 - 536 Å°F	Injection Molding
Front Barrel Temperature	255 - 285 Å°C	491 - 545 Å°F	Injection Molding
Nozzle Temperature	255 - 285 Å°C	491 - 545 Å°F	Injection Molding
Melt Temperature	255 - 285 Å°C	491 - 545 Å°F	Injection Molding
Mold Temperature	80.0 - 100 Å°C	176 - 212 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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China