

LG Chemical LUMID LW4403B(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 Parts
 CAS No. 32131-17-2, 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-LW4403BW-PA66GFMF40-Low-Warpage.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	0.0040 - 0.011 cm/cm @Thickness 3.20 mm	0.0040 - 0.011 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	162 MPa @Thickness 3.20 mm	23500 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	2.7 % @Thickness 3.20 mm	2.7 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	240 MPa @Thickness 3.20 mm	34800 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	8.34 GPa @Thickness 3.20 mm	1210 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.637 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.19 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
	0.637 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	1.19 ft-lb/in @Thickness 0.252 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C @Thickness 6.40 mm	500 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	248 Å°C @Thickness 6.40 mm	478 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	21.0 kV/mm @Thickness 1.00 mm	533 kV/in @Thickness 0.0394 in	ASTM D149

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 285 Å°C	518 - 545 Å°F	Injection Molding
Middle Barrel Temperature	275 - 290 Å°C	527 - 554 Å°F	Injection Molding
Front Barrel Temperature	280 - 290 Å°C	536 - 554 Å°F	Injection Molding
Nozzle Temperature	280 - 295 Å°C	536 - 563 Å°F	Injection Molding
Melt Temperature	270 - 295 Å°C	518 - 563 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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