

LG Chemical LUMID GP1300AP PA6, Plasticized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Feature: Injection Molding, PA6, Plasticized Application: Automotive Parts Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP1300AP-PA6-Plasticized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	1.7 %	1.7 %	ASTM D570
Linear Mold Shrinkage, Flow	0.010 - 0.014 cm/cm @Thickness 3.20 mm	0.010 - 0.014 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	49.0 MPa @Thickness 3.20 mm	7110 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	250 % @Thickness 3.20 mm	250 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	44.1 MPa @Thickness 3.20 mm	6400 psi @Thickness 0.126 in	2.8mm/min; ASTM D790
Flexural Modulus	1.18 GPa @Thickness 3.20 mm	171 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790
Izod Impact, Notched	0.883 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	1.65 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	212 Å°C	414 Å°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	150 Å°C @Thickness 6.40 mm	302 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Å°C @Thickness 6.40 mm	122 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	19.0 kV/mm @Thickness 1.00 mm	483 kV/in @Thickness 0.0394 in	ASTM D149
Arc Resistance	195 sec	195 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	215 - 250 Â°C	419 - 482 Â°F	Injection Molding
Middle Barrel Temperature	215 - 245 Â°C	419 - 473 Â°F	Injection Molding
Front Barrel Temperature	220 - 250 Â°C	428 - 482 Â°F	Injection Molding
Nozzle Temperature	220 - 250 Â°C	428 - 482 Â°F	Injection Molding
Melt Temperature	215 - 250 Â°C	419 - 482 Â°F	Injection Molding
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Injection Molding
Drying Temperature	65.0 Â°C	149 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

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