

LG Chemical LUMID SG2600B PA6+GF60%, General purpose, Good Surface

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 60% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA6+GF60%, General purpose, Good Surface
Application: Automotive (Side Mirror Base Plate)
CAS No. 25038-54-4 and 65997-17-3
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-SG2600B-PA6GF60-General-purpose-Good-Surface.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.72 g/cc	1.72 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570
Maximum Moisture Content	0.090	0.090	Injection Molding
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm @Thickness 3.20 mm	0.0020 - 0.0050 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	227.0 MPa @Thickness 3.20 mm	32930 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	2.0 % @Thickness 3.20 mm	2.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	314 MPa @Thickness 3.20 mm	45500 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	16.1 GPa @Thickness 3.20 mm	2330 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.883 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	1.65 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	ASTM D696
Melting Point	260 Â°C	500 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	212.8 Â°C	415.0 Â°F	Unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	25.0 kV/mm @Thickness 1.00 mm	635 kV/in @Thickness 0.0394 in	ASTM D149

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 270 Â°C	500 - 518 Â°F	Injection Molding
Middle Barrel Temperature	270 - 285 Â°C	518 - 545 Â°F	Injection Molding
Front Barrel Temperature	270 - 290 Â°C	518 - 554 Â°F	Injection Molding
Nozzle Temperature	270 - 295 Â°C	518 - 563 Â°F	Injection Molding
Melt Temperature	270 - 295 Â°C	518 - 563 Â°F	Injection Molding
Mold Temperature	80.0 - 110 Â°C	176 - 230 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
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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