

LG Chemical LUMID SG2300B(W) PA66+GF30%, General Purpose, Good Surface

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA66+GF30%, General Purpose, Good Surface
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-SG2300BW-PA66GF30-General-Purpose-Good-Surface.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Water Absorption	1.1 %	1.1 %	ASTM D570
Maximum Moisture Content	0.090	0.090	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0090 cm/cm @Thickness 3.20 mm	0.0040 - 0.0090 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	177 MPa @Thickness 3.20 mm	25600 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	3.0 % @Thickness 3.20 mm	3.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	255 MPa @Thickness 3.20 mm	37000 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	1.18 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	2.20 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
Melting Point	260 Â°C	500 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 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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