

LG Chemical LUMID GP2130AE PA6+GF13%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA6+GF13%, General Purpose
Application: Industrial Material
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-GP2130AE-PA6GF13-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	0.090 %	0.090 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.20 mm	0.0060 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	113 MPa @Thickness 3.20 mm	16400 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	8.0 % @Thickness 3.20 mm	8.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	162 MPa @Thickness 3.20 mm	23500 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	4.41 GPa @Thickness 3.20 mm	640 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	0.918 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	170 Â°C @Thickness 6.40 mm	338 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric 15 ohm-cm	English 5 ohm-cm	Comments
Dielectric Constant	3.8	3.8	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	160 sec	160 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 255 Â°C	455 - 491 Â°F	Injection Molding
Middle Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Front Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Nozzle Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Melt Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 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

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