

LG Chemical LUMID GP2130B(W) PA66+GF13%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA66+GF13%, General Purpose Application: Valve Covers CAS No. 32131-17-2, 65997-17-3 and 9010-79-

9 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP2130BW-PA66GF13-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	1.0 % @Temperature 23.0 Â°C, Time 86400 sec	1.0 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.090	0.090	Injection Molding
Linear Mold Shrinkage, Flow	0.0070 - 0.012 cm/cm @Thickness 3.20 mm	0.0070 - 0.012 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	123 MPa @Thickness 3.20 mm	17800 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	4.0 % @Thickness 3.20 mm	4.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	167 MPa @Thickness 3.20 mm	24200 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	4.90 GPa @Thickness 3.20 mm	711 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
Melting Point	260 Â°C	500 Â°F	ASTM D3418

Thermal Properties (on psi)	255 Â°C Metric	491 Â°F English	Comments
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 0.46 MPa (68 psi)	240 Â°C	464 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	120 Â°C	248 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	120 Â°C	248 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	110 Â°C	230 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	110 Â°C	230 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	110 Â°C	230 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	120 Â°C	248 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	120 Â°C	248 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	HB	HB	
	@Thickness >=0.700 mm	@Thickness >=0.0276 in	
	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	

Thermal Properties	Metric	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	4.0	ASTM D150
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
High Voltage Arc-Tracking Rate, HVTR	25.4 - 50.0 mm/min	1.00 - 1.97 in/min	

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

Processing Properties	Metric	English	Comments
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China