



# LUMID GP2130B(W)

Injection Molding, PA66+GF13%

Description	Application
General Purpose	Valve Covers

Properties	Test Condition	Test Method	Unit	Турі	cal Va	lue
Physical						
Specific Gravity		ASTM D792	-	1.22		
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0	.7 ~ 1.2	
Melt Flow Rate		ASTM D1238	g/10min			
Water Absorption	23℃, 24hrs	ASTM D570	%		1	
lechanical						
Tensile Strength, 3.2mm		ASTM D638				
@ Break	5mm/min		kg/cm <sup>2</sup>		1,250	
Tensile Elongation, 3.2mm		ASTM D638	9			
@ Break	5mm/min		%		4	
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm <sup>2</sup>		1,700	
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm <sup>2</sup>	:	50,000	
IZOD Impact Strength, 6.4mm		ASTM D256	0			
(Notched)	<b>23</b> ℃		kg·cm/cm		5	
, , , , , , , , , , , , , , , , , , ,	<b>-30</b> ℃		kg∙cm/cm			
IZOD Impact Strength, 3.2mm		ASTM D256	0			
(Notched)	<b>23</b> ℃		kg·cm/cm			
( )	<b>-30</b> ℃		kg.cm/cm			
Rockwell Hardness	R-Scale	ASTM D785	-		121	
Melting Temperature Heat Deflection Temperature, 6.4mm		ASTM D3418 ASTM D648	Ĵ		260	
(Unannealed)	18.6kg		°C		240	
	4.6kg		C		255	
Coefficient of Linear Thermal Expansion	on	ASTM D696				
Flow			10 <sup>-5</sup> m/m ℃		4	
Cross-flow			10 <sup>-5</sup> m/m ℃			
Flammability		UL94				
0.75mm			class		HB	
1.5mm			class		HB	
3.0mm			class		HB	
Relative Temperature Index		UL 746B	mm	0.75	1.5	3.
Electrical			°C	120	110	12
Mechanical with Impact			C	120	110	12
Mechanical without Impact			C	120	110	12
Glow Wire Flammability Index(GWFI)		IEC 60695-2-13				
0.8mm			C			
1.6mm			C			
3.2mm			Ĵ			
Glow Wire Ignition Temp.(GWIT)		IEC 60695-2-13				
0.8mm			C			
1.6mm			C			
1.0000			ĉ			

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.





## LUMID GP2130B(W)

Injection Molding, PA66+GF13%

### Description

**General Purpose** 

**Application** Valve Covers

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

Updated : 9-Nov-09

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products.





# LUMID GP2130B(W)

Injection Molding, PA66+GF13%

#### Description

**General Purpose** 

### Application

Valve Covers

#### Electrical

Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	<b>23</b> ℃	ASTM D257	Ohm∙m	1.0E+14
Arc Resistance	<b>23</b> ℃	ASTM D495	sec	
Dielectric Strength, 1mm	<b>23</b> ℃	ASTM D149	kV/mm	25
Dielectric Constant (10 <sup>6</sup> Hz)	<b>23</b> ℃	ASTM D150	sec	4

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

#### Processing Guide (Injection Molding)

Processi	Processing Parameters		Value	
Drying Temperature		C	80 ~ 100	
Drying Time		hrs	4 ~ 5	
Minimum Moisture Content		%	0.09	
Melt Temperature		Ĵ	270 ~ 290	
Cylinder Temperature	Rear	C	265 ~ 275	
	Middle	C	270 ~ 280	
	Front	C	270 ~ 285	
Nozzle Temperature		Ĵ	270 ~ 280	
Mold Temperature		Ĵ	80 ~ 110	
Back Pressure		kg/cm <sup>2</sup>	300 ~ 600	
Screw Speed		rpm	30 ~ 60	

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

Updated : 9-Nov-09

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products.