



LUMID GP2430B(W)

Injection Molding, PA66+GF43%

DescriptionGeneral Purpose

Application

Automotive(Air Intake Manifold)

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.5
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.3~0.7
Melt Flow Rate		ASTM D1238	g/10min	
Water Absorption	23℃, 24hrs	ASTM D570	%	0.6
Mechanical				
Tensile Strength, 6.4mm		ASTM D638		
@ Break	5mm/min		kg/cm ²	2,200
Tensile Elongation, 6.4mm		ASTM D638		·
@ Break	5mm/min		%	2
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	3,100
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	130,000
IZOD Impact Strength, 6.4mm		ASTM D256	• •	
(Notched)	23℃		kg-cm/cm	
	-30 ℃		kg-cm/cm	
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23℃		kg-cm/cm	14
	-30 ℃		kg-cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	122
Thermal				
Melting Temperature		ASTM D3418	$^{\circ}$	260
Heat Deflection Temperature, 6.4mm		ASTM D648	<u> </u>	
(Unannealed)	18.6kg	7.020.0	$^{\circ}$	255
(6.1464.64)	4.6kg		C	260
Coefficient of Linear Thermal Expansion		ASTM D696		
Flow			10 ⁻⁵ m/m ℃	3
Cross-flow			10 m/m °C	-
Flammability		UL94		
0.75mm			class	HB
			-1	LID
1.5mm			class	HB

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

Updated: 9-Nov-09

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





LUMID GP2430B(W)

Injection Molding, PA66+GF43%

DescriptionGeneral Purpose

Application

Automotive(Air Intake Manifold)

Electrical

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

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

Processing Guide (Injection Molding)

Processi	ng Parameters	Unit	Value
Drying Temperature		${\mathbb C}$	80 ~ 100
Drying Time		hrs	4 ~ 5
Minimum Moisture Content		%	0.09
Melt Temperature		${\mathbb C}$	270 ~ 295
	Rear	${\mathbb C}$	260 ~ 270
Cylinder Temperature	Middle	${\mathbb C}$	270 ~ 285
	Front	ზ hrs % ზ ზ ზ ზ	270 ~ 290
Nozzle Temperature		${\mathbb C}$	270 ~ 295
Mold Temperature		${\mathbb C}$	80 ~ 110
Back Pressure		kg/cm ²	300 ~ 600
Screw Speed		rpm	30 ~ 60

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

Updated: 9-Nov-09

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.

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