



Tymical Walue

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LUMID GP2101BF

Injection Molding, PA66+GF10%

Droportios

DescriptionApplicationFlame RetardantE&E Parts

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.48
Molding Shrinkage, 3.2mm		ASTM D955	%	0.7 ~ 1.2
Melt Flow Rate		ASTM D1238	g/10min	
Water Absorption	23℃, 24hrs	ASTM D570	%	0.7
lechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Break	5mm/min		kg/cm ²	1,000
Tensile Elongation, 3.2mm		ASTM D638	rtg, orri	,
@ Break	5mm/min		%	3
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	1,450
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	50,000
IZOD Impact Strength, 6.4mm		ASTM D256	rig, erri	· · · · · · · · · · · · · · · · · · ·
(Notched)	23 ℃		kg·cm/cm	
,	-30℃		kg-cm/cm	
IZOD Impact Strength, 3.2mm		ASTM D256		
(Notched)	23℃		kg·cm/cm	5
,	-30℃		kg.cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	120
'hermal				
Melting Temperature		ASTM D3418	$^{\circ}$	260
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		$^{\circ}$ C	230
	4.6kg		$^{\circ}$	
Coefficient of Linear Thermal Expansion		ASTM D696		
Flow			10⁻⁵ m/m ℃	3
Cross-flow			10 ⁻⁵ m/m ℃	
Flammability		UL94		
0.8mm			class	V-0
Relative Temperature Index		UL 746B		
Electrical				
Mechanical with Impact		0.8mm	${\mathbb C}$	
Mechanical without Impact				

Test Condition Test Method

Updated: 16-Aug-16

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.

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Injection Molding, PA66+GF10%

Description

Flame Retardant

Application

E&E Parts

Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	250
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 ℃	ASTM D257	Ohm∙cm	1.0E+14
Arc Resistance	23 ℃	ASTM D495	sec	
Dielectric Strength, 1mm	23 ℃	ASTM D149	kV/mm	22
Dielectric Constant (10 ⁶ Hz)	23 ℃	ASTM D150		3

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

Processing Guide (Injection Molding)

Proce	ssing Parameters	Unit	Value
Drying Temperature		${\mathbb C}$	80 ~ 100
Drying Time		hrs	4 ~ 5
Maximum Moisture Content		%	0.1
Melt Temperature		${\mathbb C}$	270 ~ 290
	Rear	${\mathbb C}$	265 ~ 275
Cylinder Temperature	Middle	${\mathbb C}$	270 ~ 280
	Front	${\mathbb C}$	270 ~ 285
Nozzle Temperature		${\mathbb C}$	270 ~ 280
Mold Temperature		${\mathbb C}$	80 ~ 110
Back Pressure	Hydraulic Type	14.010.002	10~30
	Electric Type	kg/cm ²	100~300
Screw Speed		rpm	60~150

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.

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