



LUMID GP2330B(W)

Injection Molding, PA66+GF33%

Description

General Purpose

Application

Automotive(Air Intake Manifold, Cylinder Head Cover)

Properties	Test Condition	Test Method	Unit	Турі	cal Va	lue
Physical						
Specific Gravity		ASTM D792	-	1.38		
Molding Shrinkage, 3.2mm		ASTM D955	%	C	.4~0.9	
Melt Flow Rate		ASTM D1238	g/10min			
Water Absorption	23℃, 24hrs	ASTM D570	%		0.7	
Mechanical						
Tensile Strength, 3.2mm		ASTM D638				
@ Break	5mm/min		kg/cm ²	1,950		
Tensile Elongation, 3.2mm		ASTM D638				
@ Break	5mm/min		%		3	
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	2,850		
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	95,000		
IZOD Impact Strength, 3.2mm		ASTM D256				
(Notched)	23 ℃		kg∙cm/cm		13	
	-30 ℃		kg∙cm/cm			
IZOD Impact Strength, 6.4mm		ASTM D256				
(Notched)	23 ℃		kg∙cm/cm			
	-30 ℃		kg∙cm/cm			
Rockwell Hardness	R-Scale	ASTM D785	-		122	
Thermal						
Melting Temperature		ASTM D3418	С		260	
Heat Deflection Temperature, 6.4mm		ASTM D648				
(Unannealed)	18.6kg		Ĵ		250	
	4.6kg		°C		260	
Coefficient of Linear Thermal Expansi	on	ASTM D696				
Flow			10 ⁻⁵ m/m ℃		3	
Cross-flow			10 ⁻⁵ m/m ℃			
Flammability		UL94				
0.75/1.5/3.0mm			class		HB	
Relative Temperature Index		UL 746B	mm	0.75	1.5	3.0
Electrical			C	120	110	120
Mechanical with Impact			Ĵ	120	110	120
Mechanical without Impact Note) Typical values are only for material selection pr			C	120	110	120

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.

Updated : 1-Jun-14

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Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	
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	25
Dielectric Constant (10 ⁶ Hz)	23 ℃	ASTM D150		4

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

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value	
Drying Temperature		C	80 ~ 100	
Drying Time		hrs	4 ~ 5	
Maximum Moisture Content		%	0.12	
Melt Temperature		C	270 ~ 295	
Cylinder Temperature	Rear	C	260 ~ 270	
	Middle	C	270 ~ 285	
	Front	°C	270 ~ 290	
Nozzle Temperature		C	270 ~ 295	
Mold Temperature		C	80 ~ 110	
Back Pressure	Hydraulic Type	ka/am ²	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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