



LUPOY GN5201F

Injection Molding, PC/ABS+GF20%

Description

Application

Halogen Free Flame Retardent, High Stiffness

E&E(Housing, OA Frame)

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.36
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.2~0.4
Melt Flow Rate	250℃/5kg	ASTM D1238	g/10min	11
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	5mm/min		kg/cm ²	1050
Tensile Elongation, 3.2mm		ASTM D638		
@ Break	5mm/min		%	5
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	1,500
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	60,000
IZOD Impact Strength, 3.2mm		ASTM D256	<u> </u>	
(Notched)	23℃		kg·cm/cm	11
	- 30 ℃		kg·cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	
Thermal Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		${\mathbb C}$	105
	4.6kg		°C	
Vicat Softening Temperature		ASTM D1525		
	5kg, 50 ℃/h		°C	
Ball Pressure Temperature		IEC 60695-10-2	${\mathbb C}$	
Burning Rate, 3.2mm		FMVSS 302	mm	
Flammability		UL94		
1.5mm			class	V0
2.0mm			class	V0, 5VB(BK)
3.0mm			class	
3.2mm		=	class	
Relative Temperature Index		UL 746B		
Electrical			°C	60
Mechanical with Impact			$^{\circ}$	60
Mechanical without Impact			°C	60

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

Updated: Nov-09, 2009

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.

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.





LUPOY GN5201F

Injection Molding, PC/ABS+GF20%

Description

Application

Halogen Free Flame Retardent, High Stiffness

E&E(Housing, OA Frame)

Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 ℃	ASTM D257	Ohm⋅m	
Arc Resistance	23 ℃	ASTM D495	Ohm·cm	
Dielectric Strength, 1mm	23 ℃	ASTM D149	kV/mm	
Dielectric Constant (10 ⁶ Hz)	23 ℃	ASTM D150	sec	

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		${\mathbb C}$	75 ~ 85
Drying Time		hrs	3 ~ 4
Minimum Moisture Content		%	0.04
Melt Temperature		${\mathbb C}$	245 ~ 275
	Rear	${\mathbb C}$	230 ~ 250
Cylinder Temperature	Middle	${\mathbb C}$	245 ~ 265
	Front	${\mathbb C}$	260 ~ 275
Nozzle Temperature		${\mathbb C}$	260 ~ 275
Mold Temperature		${\mathbb C}$	60 ~ 80
Back Pressure		kg/cm ²	10 ~ 20
Screw Speed		rpm	40 ~ 70

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 : Nov-09, 2009

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.