



LUMAX GP5106FI

Injection Molding Grade, PBT+ABS+GF10%

Description

Application

Flame Retardant, Impact Modified, Dimensional Stability IT/OA, E&E

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	_	1.40
Molding Shrinkage		ASTM D955	%	0.4 ~ 0.9
Melt Flow Rate	250℃/3.8kg	ASTM D1238	g/10min	6
Water Absorption	23℃, 24hrs	ASTM D570	%	0.08
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Break	5mm/min		kg/cm ²	570
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	5mm/min		%	
@ Break	5mm/min		%	3.0
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	870
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	32,000
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 ℃		kg·cm/cm	6.0
Гhermal Melt Temperature		ASTM D3418	٦°	223
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		°C	110
	4.6kg		°C	
Flammability		UL94		
1.5 mm			class	V-0
3.0 mm			class	V-0
Relative Temperature Index				
Relative Temperature muex		UL 746B		
Electrical		UL 746B	Ĵ	60
•		UL 746B	Э° Э	60 60
Electrical		UL 746B		
Electrical Mechanical with Impact Mechanical without Impact		UL 746B	C	60
Electrical Mechanical with Impact Mechanical without Impact	Solution A	UL 746B UL 746	C	60
Electrical Mechanical with Impact Mechanical without Impact	Solution A 23℃		ວ ວ	60 60
Electrical Mechanical with Impact Mechanical without Impact Electrical Comparative Tracking Index(CTI)		UL 746	ີ ເ PLC	60 60 3

Note) 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-Jul-14

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Processing Guide (Injection Molding)

Processi	ng Parameters	Unit	Value
Drying Temperature		Ĵ	100
Drying Time		hrs	4 ~ 5
Maximum Moisture Content		%	0.02
Melt Temperature		Ĵ	240 ~ 250
Cylinder Temperature	Rear	Ĵ	225 ~ 235
	Middle	C	230 ~ 245
	Front	C	240 ~ 250
Nozzle Temperature		Ĵ	240 ~ 250
Mold Temperature		Ĵ	40 ~ 80
Back Pressure		kg/cm ²	-
Screw Speed		rpm	-

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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