



## **LUMAX GN5006FC**

Injection Molding, PBT+ABS

**Description** 

Application

Halogen Free Flame Retardant

IT/OA, E&E

Properties	<b>Test Condition</b>	Test Method	Unit	Typical Value
hysical				
Specific Gravity		ASTM D792	-	1.05
Molding Shrinkage		ASTM D955	%	0.5 ~ 0.7
Melt Flow Rate	250°C/2.16kg	ASTM D1238	g/10min	14
Water Absorption	23℃, 24hrs	ASTM D570	%	0.08
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm <sup>2</sup>	480
Tensile Elongation, 3.2mm		ASTM D638	Kg/ OIII	
@ Yield	50mm/min		%	
@ Break	50mm/min		%	13
Flexural Strength, 3.2mm	2.8mm/min	ASTM D790	kg/cm <sup>2</sup>	720
Flexural Modulus, 3.2mm	2.8mm/min	ASTM D790	kg/cm <sup>2</sup>	23,000
IZOD Impact Strength, 3.2mm		ASTM D256	11,5, 0	·
(Notched)	<b>23</b> ℃		kg·cm/cm	15
Thermal  Melt Temperature		ASTM D3418	°C	223
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		${\mathbb C}$	80
	4.6kg		${\mathbb C}$	
Flammability		UL94		
1.2 mm			class	V-2
1.5 mm			class	V-2
3.0 mm			class	V-2
Relative Temperature Index		UL 746B		
Electrical			${\mathbb C}$	60
Mechanical with Impact			$^{\circ}$	60
Mechanical without Impact			${\mathbb C}$	60
lectrical				
Comparative Tracking Index(CTI)	Solution A	UL 746	PLC	-
Volume Resistivity	<b>23</b> ℃	ASTM D257	Ohm∙cm	-
Arc Resistance	<b>23</b> ℃	ASTM D495	PLC	-
Dielectric Strength, 1mm	<b>23</b> ℃	ASTM D149	kV/mm	-

Note) All properties, except melt flow rate are measured on injection moluided specimens and after 48 nours storage at 23 C, 50% relative numidity

Updated: 1-Jul-14

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.





## **LUMAX GN5006FC**

Injection Molding, PBT+ABS

Description

Application

Halogen Free Flame Retardant

IT/OA, E&E

## **Processing Guide (Injection Molding)**

Processing Parameters		Unit	Value
Drying Temperature		$^{\circ}$	80
Drying Time		hrs	4 ~ 6
Maximum Moisture Content		%	0.02
Melt Temperature		${\mathbb C}$	230 ~ 245
Cylinder Temperature	Rear	${\mathbb C}$	220 ~ 230
	Middle	${\mathbb C}$	225 ~ 235
	Front	${\mathbb C}$	225 ~ 235
Nozzle Temperature		${\mathbb C}$	230 ~ 245
Mold Temperature		${\mathbb C}$	40 ~ 60
Back Pressure		kg/cm <sup>2</sup>	-
Screw Speed		rpm	-

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

Updated: 1-Jul-14

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