



LUPOX GP1000M

Injection Molding, PBT

D	•	. •
Desc	rin	tion
DCOC	P	cion

Good Impact

Application Automotive(Connector)

Properties	Test Condition	Test Method	Unit	Typical Value
hysical				
Specific Gravity		ASTM D792	-	1.29
Molding Shrinkage		ASTM D955	%	1.2 ~ 2.0
Melt Flow Rate	250℃/2.16kg	ASTM D1238	g/10min	34
Water Absorption	23℃, 24hrs	ASTM D570	%	0.08
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	470
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	-
@ Break	50mm/min		%	> 100
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	670
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	19,000
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 ℃		kg·cm/cm	5.2
Thermal Melt Temperature		ASTM D3418	°C	223
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		C	57
	4.6kg		°C	
Flammability	Ŭ	UL94		
0.71mm			class	HB
1.5mm			class	HB
3.3mm			class	HB
Relative Temperature Index		UL 746B		
Electrical			°C	140
Mechanical with Impact			C	130
Mechanical without Impact			C	140
Electrical				
Comparative Tracking Index(CTI)	Solution A	UL 746	PLC	0
Volume Resistivity	23 ℃	ASTM D257	Ohm∙cm	1.0E+17
Arc Resistance	23 ℃	ASTM D495	PLC	5
Dielectric Strength, 1mm	23 ℃	ASTM D149	kV/mm	23

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.





LUPOX GP1000M

Injection Molding, PBT

Description

Good Impact

Application

Automotive(Connector)

Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		Ĵ	100 ~ 120
Drying Time		hrs	4 ~ 6
Maximum Moisture Content		%	0.02
Melt Temperature		Ĵ	240 ~ 250
Cylinder Temperature	Rear	C	230 ~ 235
	Middle	C	235 ~ 240
	Front	C	240 ~ 245
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.

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.