

LUMILOY GP2300

Injection Molding Grade, General Purpose

Description

GF 30% Reinforced
NSF Certified for Black and Grey
High Impact Strength
Hydrolytic Stability

Application

Electric and Electronic parts
Part for Water contact
Water pump Housing or Impellers

Properties	Test Condition	Test Method	Unit	Typical Property
Physical				
Specific Gravity		ASTM D792	-	1.28
Molding Shrinkage (Flow), 3.2mm		LG Method	%	0.1 ~ 0.3
Molding Shrinkage (Transverse Flow), 3.2mm		LG Method	%	0.5 ~ 0.7
Melt Flow Rate	280°C/5kg	ASTM D1238	g/10min	9
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	1300
Tensile Elongation, 3.2mm		ASTM D638		
@ Break	50mm/min		%	3
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	Mpa	7,800
Flexural Strength, 3.2mm	10mm/min	ASTM D790	kg/cm ²	2,000
Flexural Modulus, 3.2mm	10mm/min	ASTM D790	kg/cm ²	79,000
IZOD Impact Strength, 3.2mm (Notched)	23°C	ASTM D256	kg-cm/cm	13
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	°C	139
Vicat Softening Temp, Rate B/50		ASTM D1525	°C	148
Coefficient of Linear Thermal Expansion		ASTM D696		
Flow, -30°C ~ 130°C			10 ⁻⁵ m/m°C	1.7
Cross-flow, -30°C ~ 130°C			10 ⁻⁵ m/m°C	7.0
Flammability		UL94		
0.8mm			class	HB
1.5mm			class	HB
3.0mm			class	HB
Relative Temperature Index		UL 746B		
Electrical			°C	65
Mechanical with Impact			°C	65
Mechanical without Impact			°C	65
Electrical				
Comparative Tracking Index(CTI)		IEC 60112		4
Volume Resistivity	23°C	ASTM D257	10 ^x Ohm-cm	11
Dielectric Strength	23°C	ASTM D149	kV/mm	36

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

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 moluded specimens and after 48 hours storage at 23°C, 50% relative humidity.

Updated : 6-Feb-18

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.

LUMILOY GP2300

Injection Molding Grade, General Purpose

Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	°C	90 ~ 100
Drying Time	hrs	4 ~ 5
Maximum Moisture Content	%	0.02
Melt Temperature	°C	280 ~ 320
Cylinder Temperature	Rear	°C 260 ~ 300
	Middle	°C 270 ~ 310
	Front	°C 270 ~ 310
Nozzle Temperature	°C	270 ~ 310
Mold Temperature	°C	70 ~ 110

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.