



Lupoy® GP5100

LG Chem Ltd. - Polycarbonate + ABS

Saturday, July 20, 2019

General Information

Product Description

Description
General Purpose, GF Reinforced

Application
Electrical Appliance Housing, Automotive I/P

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• General Purpose
Uses	• Automotive Instrument Panel • Electrical Housing • Electrical/Electronic Applications • General Purpose
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.16 to 1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.30 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	88.3	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	3.0	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	4810	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	137	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	125	°C	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	85 to 95	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	220 to 240	°C
Middle Temperature	235 to 255	°C
Front Temperature	250 to 265	°C
Nozzle Temperature	250 to 265	°C

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Lupoy® GP5100

LG Chem Ltd. - Polycarbonate + ABS

Injection	Nominal Value	Unit
Processing (Melt) Temp	235 to 265	°C
Mold Temperature	50 to 80	°C
Screw Speed	40 to 70	rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

² 5.0 mm/min

³ 1.3 mm/min
