

**General Information**
**Product Description**

## Description

Halogen Free Flame Retardant, Heat Resistance

## Application

IT/OA, Electric &amp; Electronic Housing and Components

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Good Heat Resistance • Halogen Free
Uses	• Electrical Housing • Electrical/Electronic Applications
Processing Method	• Injection Molding

**ASTM & ISO Properties<sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.43	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	118	MPa	
Flexural Modulus <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	6860	MPa	ASTM D790
Flexural Strength <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	177	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	11	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	120		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	142	°C	
RTI Elec	120	°C	UL 746
RTI Imp	90.0	°C	UL 746
RTI Str	105	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm		V-0	
3.0 mm		V-0	
		5VA	

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® GN2301F

## LG Chem Ltd. - Polycarbonate

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100 to 200	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	270 to 300	°C
Middle Temperature	280 to 310	°C
Front Temperature	290 to 330	°C
Nozzle Temperature	290 to 330	°C
Processing (Melt) Temp	300 to 340	°C
Mold Temperature	90 to 120	°C
Back Pressure	0.981 to 3.92	MPa
Screw Speed	40 to 70	rpm

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 5.0 mm/min

<sup>3</sup> 1.3 mm/min