



# Lupoy® GP2300

LG Chem Ltd. - Polycarbonate

Friday, May 24, 2019

## General Information

### Product Description

Description

General Purpose, Heat Resistance

Application

IT/OA, E&E Housing and Components, Automotive (Interior)

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• General Purpose	• Good Heat Resistance	
Uses	• Automotive Interior Parts	• 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)	10	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	
Tensile Elongation <sup>2</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	4.0	%	
Flexural Modulus <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	7350	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)	110	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	140	°C	
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100 to 120	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%

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Injection	Nominal Value	Unit
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> 10 mm/min