



Lupoy® GN2101FC
 LG Chem Ltd. - Polycarbonate

Friday, May 24, 2019

General Information

Product Description

Description
 Halogen Free Flame Retardant, Heat Resistance

Application
 IT/OA, Electric & Electronic Housing and Components

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• Flame Retardant • Halogen Free • High Heat Resistance
Uses	• Electrical Housing • Electrical/Electronic Applications
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	83.4	MPa	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	3920	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)	78	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	124		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	138	°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, ALL		V-0	
3.0 mm, ALL		V-0	
		5VA	

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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

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

² 5.0 mm/min

³ 1.3 mm/min