



# Lupoy® GN5001RF

LG Chem Ltd. - Polycarbonate + ABS

Friday, May 24, 2019

## General Information

### Product Description

Description

Halogen Free Flame Retardant, Good Flow

Application

E&E (TV, Navigatio Housing)

### General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Additive	• Flame Retardant
Features	• Flame Retardant • Good Flow • Halogen Free
Uses	• Electrical/Electronic Applications • Television Housings
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	58.8	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	50	%	
Flexural Modulus <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	2450	MPa	ASTM D790
Flexural Strength <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	390	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	113		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>4</sup>			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	92.0	°C	
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	85.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.2 mm	V-0		
2.5 mm	V-0		
3.0 mm	V-0		

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	75 to 85	°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
Processing (Melt) Temp	235 to 265	°C
Mold Temperature	50 to 80	°C
Back Pressure	0.0196 to 0.0588	MPa
Screw Speed	40 to 70	rpm

Notes

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

<sup>2</sup> 50 mm/min

<sup>3</sup> 10 mm/min

<sup>4</sup> 4.6kg