



Lupoy® GN5001RFH

LG Chem Ltd. - Polycarbonate + ABS

Friday, May 24, 2019

General Information

Product Description

Description
Halogen Free Flame Retardant, Heat Resistance

Application
E&E(TV, Navigation Housing)

General

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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	15	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 ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	62.8	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 80	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	2650	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	610	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			ASTM D648
0.45 MPa, Unannealed, 6.40 mm, Injection Molded	103	°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		

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® GN5001RFH
LG Chem Ltd. - Polycarbonate + ABS

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

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

² 50 mm/min

³ 10 mm/min