



Lupoy® GN1008RF
 LG Chem Ltd. - Polycarbonate

Saturday, July 20, 2019

General Information

Product Description

Description
 Halogen Free Flame Retardant, High impact strength

Application
 IT&OA (Notebook PC battery pack housing)

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • Europe • North America
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free • High Impact 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) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	60.8	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	100	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	2350	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	96.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	100	°C	
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.40 mm		V-2	
0.60 mm		V-0	
0.8 mm		V-0	
3.0 mm		V-0	

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	85 to 95	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	245 to 260	°C
Middle Temperature	260 to 275	°C
Front Temperature	265 to 280	°C
Nozzle Temperature	270 to 285	°C
Processing (Melt) Temp	245 to 285	°C
Mold Temperature	70 to 90	°C
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