

**General Information**
**Product Description**

## Description

General Purpose, High Stiffness, Halogen Free Flame Retardent

## Application

E&amp;E(Housing), IT/OA(Notebook PC Housing)

**General**

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> <li>• Asia Pacific</li> <li>• Europe</li> <li>• Latin America</li> <li>• North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>• Flame Retardant</li> <li>• General Purpose</li> <li>• Halogen Free</li> <li>• High Stiffness</li> </ul>
Uses	• Electrical/Electronic Applications
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, 3.20 mm)	61.8	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 3.20 mm)	> 30	%	ASTM D638
Flexural Modulus <sup>3</sup> (3.20 mm)	3140	MPa	ASTM D790
Flexural Strength <sup>3</sup> (Yield, 3.20 mm)	98.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, 6.40 mm	94.0	°C	ASTM D648
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.75 mm		V-0	
1.5 mm		V-0	
3.0 mm		V-0	
Flammability Classification			IEC 60695-11-10, -20
0.75 mm, ALL		V-0	
1.5 mm, ALL		V-0	
3.0 mm, ALL		V-0	

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**Lupoy® GN5101RF**  
**LG Chem Ltd. - Polycarbonate + ABS**

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**Processing Information**

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<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	75 to 85	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	200 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	0.981 to 1.96	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> 1.3 mm/min