

Lupoy® GN5101RF

Polycarbonate + ABS

LG Chem Ltd.

Message:

Description

General Purpose, High Stiffness, Halogen Free Flame Retardant

Application

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

General Information			
UL YellowCard	E248280-101162019	E302314-530043	E302314-530044
Features	E67171-248620		
	Flame Retardant		
	General Purpose		
	Halogen Free		
	High Stiffness		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	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 ¹ (Yield, 3.20 mm)	61.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 30	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3140	MPa	ASTM D790
Flexural Strength ⁴ (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		Test Method
Flame Rating			
0.750 mm	V-0		UL 94
1.50 mm	V-0		UL 94
3.00 mm	V-0		UL 94

0.750 mm, ALL	V-0	IEC 60695-11-10, -20
1.50 mm, ALL	V-0	IEC 60695-11-10, -20
3.00 mm, ALL	V-0	IEC 60695-11-10, -20

Injection	Nominal Value	Unit
Drying Temperature	75.0 to 85.0	°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	50.0 to 80.0	°C
Back Pressure	0.981 to 1.96	MPa
Screw Speed	40 to 70	rpm

NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	

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