

Lupoy® GN5151RFA

Polycarbonate + ABS

LG Chem Ltd.

Message:

Description

General Purpose, High Stiffness, Halogen Free Flame Retardent

Application

IT/OA(Notebook PC Housing)

General Information			
Filler / Reinforcement	Mineral,15% Filler by Weight		
Features	Flame Retardant		
	General Purpose		
	Halogen Free		
	High Stiffness		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	66.7	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	20	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4410	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	113	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	95.0	°C	ASTM D648
RTI Elec (1.00 to 1.10 mm)	60.0	°C	UL 746
RTI Imp (1.00 to 1.10 mm)	60.0	°C	UL 746
RTI Str (1.00 to 1.10 mm)	60.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating (1.00 mm)	V-0	UL 94	
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	230 to 250	°C
Middle Temperature	245 to 265	°C
Front Temperature	260 to 275	°C
Nozzle Temperature	260 to 275	°C
Processing (Melt) Temp	245 to 275	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure	0.981 to 1.96	MPa
Screw Speed	40 to 70	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

