

Lupoy® GN2101FC

Polycarbonate

LG Chem Ltd.

Message:

Description

Halogen Free Flame Retardant, Heat Resistance

Application

IT/OA, Electric & Electronic Housing and Components

General Information			
UL YellowCard	E67171-248615	E248280-100158638	E353371-101107273
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	76.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3820	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	138	°C	ASTM D648
RTI Elec	120	°C	UL 746
RTI Imp	90.0	°C	UL 746
RTI Str	105	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm, ALL	V-0		

V-0

3.00 mm, ALL

5VA

Injection	Nominal Value	Unit
Drying Temperature	100 to 200	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	270 to 300	°C
Middle Temperature	280 to 310	°C
Front Temperature	290 to 330	°C
Nozzle Temperature	290 to 330	°C
Processing (Melt) Temp	300 to 340	°C
Mold Temperature	90.0 to 120	°C
Back Pressure	0.981 to 3.92	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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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

