

Lupoy® GN1002FS

Polycarbonate
LG Chem Ltd.

Message:

Description
Halogen Free Flame Retardant, High Impact, Chemical Resistance
Application
IT/OA (M/P Battery Housing)

General Information			
UL YellowCard	E248280-100158639	E302314-530024	E67171-248605
Features	E353371-101107240		
	Flame Retardant		
	Good Chemical Resistance		
	Halogen Free		
	High Impact Resistance		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
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)	> 100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2280	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	660	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (0.45 MPa, Unannealed, 6.40 mm)	114	°C	ASTM D648
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
1.50 mm	V-0		

2.00 mm

5VB

Injection	Nominal Value	Unit
Drying Temperature	90.0 to 100	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	< 0.020	%
Rear Temperature	270 to 285	°C
Middle Temperature	275 to 290	°C
Front Temperature	275 to 290	°C
Nozzle Temperature	270 to 285	°C
Processing (Melt) Temp	275 to 290	°C
Mold Temperature	80.0 to 100	°C
Back Pressure	0.981 to 3.92	MPa
Screw Speed	40 to 80	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 15 mm/min |
| 4. | 15 mm/min |
| 5. | 18.6kg |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

