

Lupoy® GP1000LG

Polycarbonate

LG Chem Ltd.

Message:

Lupoy® GP1000LG is a Polycarbonate (PC) material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Lupoy® GP1000LG: Flame Rated.

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
UL YellowCard	E302314-530025	E67171-248608	E353371-101107245
Uses	Electrical Housing		
	Electrical/Electronic Applications		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	32	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	72.6	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2650	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	42	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	105	°C	ASTM D648
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
1.50 mm	HB		
3.00 mm	HB		
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 85.0	°C	

Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	220 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 3.92	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



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