

Lupoy® GP1000M

Polycarbonate

LG Chem Ltd.

Message:

Description

General Purpose, Transparency

Application

IT/OA, E&E Housing and Components, Automotive Exterior and Interior

General Information			
UL YellowCard	E302314-530025	E67171-248608	E353371-101107245
Features	General Purpose		
Uses	Automotive Exterior Parts		
	Automotive Interior Parts		
	Electrical/Electronic Applications		
Appearance	Clear/Transparent		
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)	11	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)	118		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)	> 150	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2260	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)	740	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (0.45 MPa, Unannealed, 6.40 mm)	130	°C	ASTM D648
Vicat Softening Temperature	141	°C	ASTM D1525 ⁶
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.0E+17	ohms · cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	17	kV/mm	ASTM D149

Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 5.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	260 to 280	°C	
Middle Temperature	280 to 300	°C	
Front Temperature	300 to 320	°C	
Nozzle Temperature	300 to 320	°C	
Processing (Melt) Temp	300 to 320	°C	
Mold Temperature	80.0 to 120	°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		
5.	18.6kg		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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



WECHAT