

Lupoy® SC1004AU

Polycarbonate

LG Chem Ltd.

Message:

Description

High Impact, High Flow, Good Weatherability

Application

Electric & Electronic Housing

General Information			
UL YellowCard	E302314-530035	E67171-318084	E248280-533907
Features	Good Weather Resistance		
	High Flow		
	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)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	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)	54.9	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	130	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2110	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	89.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁵			ASTM D256
-30°C	290	J/m	
23°C	590	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	125	°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 (0.700 mm)	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	100 to 110	°C
Drying Time	3.0 to 5.0	hr
Minimum Moisture Content	0.020	%
Rear Temperature	275 to 290	°C
Middle Temperature	280 to 295	°C
Front Temperature	290 to 300	°C
Nozzle Temperature	285 to 300	°C
Processing (Melt) Temp	285 to 300	°C
Mold Temperature	80.0 to 100	°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. | 3.2 mm Notch Depth |

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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



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