

# Luxy® K3 G55

Polyamide 6

LG Chem Ltd.

## Message:

Luxy® K3 G55 is a polyamide 6 (nylon 6) material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Luxy® The main features of K3 G55 are:

flame retardant/rated flame

anti-warping

Impact resistance

Luxy® The typical application areas of K3 G55 are: electrical/electronic applications

General Information			
UL YellowCard	E67171-647468		
Features	Low warpage		
	Impact resistance, high		
	amorphous		
Uses	Electrical/Electronic Applications		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (23°C, 3.20 mm)	0.030 - 0.15	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation <sup>1</sup> (Break, 3.20 mm)	6.0	%	ASTM D638
Flexural Modulus <sup>2</sup> (3.20 mm)	13000	MPa	ASTM D790
Flexural Strength <sup>3</sup> (3.20 mm)	281	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	160	J/m	ASTM D256
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	HB		UL 94
1.60 mm	HB		UL 94
2.50 mm	HB		UL 94
3.20 mm	HB		UL 94
Additional Information			
All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23°C, 50% relative humidity.			
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	4.0 - 5.0	hr	

Rear Temperature	280 - 300	°C
Middle Temperature	280 - 300	°C
Front Temperature	280 - 300	°C
Nozzle Temperature	280 - 320	°C
Processing (Melt) Temp	280 - 300	°C
Mold Temperature	80.0 - 100	°C
Back Pressure	29.4 - 58.8	MPa
Screw Speed	50 - 150	rpm

#### NOTE

- |    |            |
|----|------------|
| 1. | 5.0 mm/min |
| 2. | 1.3 mm/min |
| 3. | 1.3 mm/min |

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

