

## Fujipoly Data Sheet

# SARCON® LG Series

### Two-Part Gap Filler Type

### FEATURES

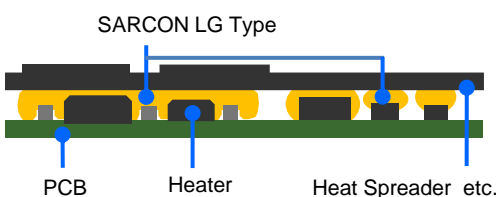
#### Highly Thermally Conductive and Electricity Insulative RTV2 Two-Part Gap Filler

SARCON® LG series is a two-component curable type high thermal conductive silicone product. When the two liquids are mixed, they harden at room temperature or at a high temperature, and harden into a flexible gel that is highly thermally conductive. By filling the parts with complex shapes and large irregularities, the heat generated from the electronic parts can be transferred efficiently.

### CONSTRUCTIONS

Series	Characteristics	Packaging Options
SARCON® LG23A	<ul style="list-style-type: none"> <li>· General-purpose type</li> <li>· Thermal Conductivity : 2.3W/m·K (ASTM D5470)</li> </ul>	<ul style="list-style-type: none"> <li>· cartridge</li> <li>· Pail</li> <li>· drum</li> </ul>
SARCON® LG30A	<ul style="list-style-type: none"> <li>· Thermal Conductivity : 3.0W/m·K (ASTM D5470)</li> </ul>	

### RECOMMENDED APPLICATION



- Since it is a two-component curing type, it flows while absorbing gaps when uncured, and after curing it cures following the irregularities, demonstrating high adhesion and excellent heat transfer effect.
- Low repulsion load (stress) protects electronic components and boards from vibration and shock.
- Maintains excellent properties such as heat resistance, cold resistance and electrical insulation of silicon.
- Work with a dispenser is possible.

### TYPICAL PROPERTIES

Properties		Unit	LG23A	LG30A	Test Method	
Physical Properties	Color	A / B	White / Yellow	Red / White	visual	
	Specific Gravity	-	2.9	3.1	JIS K6220	
	Viscosity	Pa·s	1.0(1/s)	130 / 130	150 / 150	
		A / B				
	Hardness (Cured)	Shore-OO		55	50	ASTM D2240
ASKER-C			34	32	JIS K7312	
	Maximum particle size	mm	0.09	0.09	—	
Electrical Properties	Breakdown Voltage	kV/mm	9	9	JIS K6249	
	Volume Resistivity	Ω·m	1x10 <sup>10</sup>	1x10 <sup>10</sup>	JIS K6249	
Thermal Properties	Thermal Conductivity		2.3	3.0	ASTM D5470	
			2.2	3.1	ISO 22007-2	
Curability	Pot Life	(23°C) min	60	60	-	
		(23°C) hrs	6hrs	6hrs	t=6mm	
	Curing time	(100°C) min	5min	10min	90% Cure	

## DURABILITY

### Specific Gravity

Series	initial	+70°C	+150°C	-40°C	+85°C/85%RH	-40°C⇔+125°C /30min each
		after 1,000hrs	after 1,000hrs	after 1,000hrs	after 1,000hrs	after 1,000hrs
<b>LG23A</b>	2.9	2.9	3.0	2.9	2.9	2.9
<b>LG30A</b>	3.2	3.2	3.2	3.2	3.2	3.2

### Hardness (Shore-OO)

Series	initial	+70°C	+150°C	-40°C	+85°C/85%RH	-40°C⇔+125°C /30min each
		after 1,000hrs	after 1,000hrs	after 1,000hrs	after 1,000hrs	after 1,000hrs
<b>LG23A</b>	60	58	79.0	62	46	58
<b>LG30A</b>	58	56	74	54	34	54

### Thermal Conductivity

Unit : W/m·K

Series	initial	+70°C	+150°C	-40°C	+85°C/85%RH	-40°C⇔+125°C /30min each
		after 1,000hrs	after 1,000hrs	after 1,000hrs	after 1,000hrs	after 1,000hrs
<b>LG23A</b>	2.2	2.2	2.3	2.2	2.2	2.2
<b>LG30A</b>	3.1	3.1	3.3	3.2	3.2	3.3

Test method: ISO 22007-2

### Breakdowns Voltage

Unit : kV/mm

Series	initial	+70°C	+150°C	-40°C	+85°C/85%RH	-40°C⇔+125°C /30min each
		after 1,000hrs	after 1,000hrs	after 1,000hrs	after 1,000hrs	after 1,000hrs
<b>LG23A</b>	9	9	9.0	9	9	8
<b>LG30A</b>	9	10	9	8	8	10

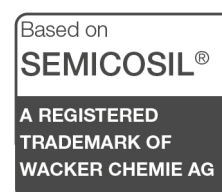
Test method: JIS K6249

## HANDLING NOTES

- It is recommended to compress the material with the equal ratio on the whole surface. Partial excessive stress may also result in excessive silicone oil exudation.

## WARRANTY STATEMENT

- Fujipoly has been utilizing Hot Disk method and TIM Tester method since Fujipoly defined them as Fujipoly standard.
- Properties of the products may be revised due to some changes for improving performance.
- Properties values in this document are not specification or guaranteed.
- This product is made of silicone, and silicone oil may exude from the product.
- This product is made of silicone, and low molecular siloxane may vaporize depending on operating conditions.
- The product is designed, developed, and manufactured for general industrial use only. Never use for medical, surgical, and/or relating purposes. Never use for the purpose of implantation and/or other purposes by which a part of or whole product remains in human body.
- Before using, a safety must be evaluated and verified by the purchaser.
- Contents described in the document do not guarantee the performances and qualities required for the purchaser's specific purposes. The purchaser is responsible for pre-testing the product under the purchaser's specific conditions and for verifying the expected performances.
- Statements concerning possible or suggested uses made herein may not be relied upon, or be constructed, as a guaranty of no patent infringement.
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