



# 深圳市聚科达电子材料有限公司

SHENZHEN JUKEDA ELECTRON MATERIALS CO., LTD.

ADD: 深圳市光明新区公明镇李松荫村第二业区如宇富明科技园 TEL:0086-755-27106461  
Ruyufuming Industry Park, Lisonglang Village,,Guangming FAX:0086-755-27105167  
New Area, Shenzhen City, China.

## Specification (JKD-6015)

### 1. Features and functions:

JKD-6015 is a kind of silicon rubber gel which can be cured at the room temperature. It is available for LED Flexible Strip Light. Compared to epoxy potting sealant and PU, it has many features as follow:

- 1) Excellent water-proof and protect LED work well under water.
- 2) Excellent heat radiation and guarantee the long life time at the condition of high temperatures working.
- 3) Excellent luminousness and refractivity and decrease light degradation.
- 4) Excellent anti-ultraviolet and guarantee the long life time outdoor working.
- 5) No limitation for work under special conditions such as temperature from -40°C to 220°C or under water.
- 6) This product has feature of room temperature cure. The principle is to have reaction with the hydrone within the air. So the there is no influence by temperature changes.

### 2. Data sheet

Technology Data	Main data
<b>Before cure</b>	
Appearance	Transparence for both group A and group B
Mixed viscosity	3800-4500LS
Operable time (25°C)	55-65min
Desiccate time of surface (25°C)	200-240min
Desiccate time for totally (25°C)	24hr
<b>Cure after 48 hours</b>	
Luminousness	97.6%
Refraction	1.43
Colour	Transparency
Shore A(HA)	22-24

<b>Elongation</b>	<b>197.2%</b>
<b>Thermal conductivity(w/m.k)</b>	<b>0.21</b>
<b>Temperature difference after encapsulated</b>	<b>&lt;5°C</b>
<b>Dielectric strength</b>	<b>&gt;27</b>
<b>Permittivity</b>	<b>3.2</b>
<b>Electrical resistivity of volume</b>	<b>&gt;1.0×10<sup>10</sup></b>

**Note:** The data is tested under the environment of laboratory. The cure time depends on the temperature and moisture. Please arrange the operate process and time according to the situation.

### **3. Usage**

1) Mix group A and group B according to the ratio 4:1( keep away from the contamination during mixture. It's better to prepare clean container and stirrer.)

2) After mixing the gel, put them into the machine to eliminate bubbles. It can be encapsulated after bubbles disappeared. Because of the low tensile force of silicon rubber, during the process of eliminate bubbles, please only fill the quarter of container. Otherwise, there is possible to lead to the gel out of the container. The correct way is to keep 10 seconds after valve open. Then closed the valve and make it return to ordinary pressure. Repeat this action for several times until the bubbles disappeared.

3) After bubbles disappeared, put the gel into the special machine to encapsulate. ( The volume of gel will shrink after cure. So during encapsulate, please fill more. In this case, it will be better appearance after cure.

4) After 6 to 8 hours, (you can touch the surface not adhesive your hand is fine) it can be continue the next process of operation.

**Attention:** Pay more attention to keep the stirring time is 1 to 2 minutes and 3 to 5 minutes to remove bubbles. Keep the time totally (stir and remove bubbles) within 10 minutes. Otherwise, it will reduce the efficiency for less time to encapsulate. This data is only for reference. Please adjust the time according to the situation.

### **4. ATTENTION:**

1) Guarantee period is 3 months. It need to test before use when it out of the period.

2) Forbidden to mix it with other gels.

- 3) It's better to continue the process of eliminating bubbles after mixed gels.
- 4) Try to use out the gel during the operable time avoid waste.
- 5) Sealed preservation in the shade and keep away from sun and fire.
- 6) Keep away from organic solvent such as banana oil and ect.
- 7) Please make a trial with samples before use the products. When the products test available, you can use it without doubt.