

# TLR-306 Two-component RTV Silicone Rubber

## FEATURES

- Hydroxyl-terminated polysiloxane, added with reinforcer and plasticizer
- 2-part, liquid silicone rubber designed for moldmaking
- Cure to elastomer at room temperature
- Cured: excellent physical strength, electrical insulation and chemical stability, good resistance to water, ozone and environmental aging
- Broad temperature performance, good stability at both low and high temperature
- Excellent molding property, no adhesion to most materials
- Satisfy requirement of different molding processes, easy to apply, mold can be used for long periods of time

## APPLICATIONS

- Typical applications include: unsaturated polyester, epoxy resin, polyurethane, gypsum, cement molding, arts and crafts manufacture, tourism product and cultural relic copy, ceramics, toy, furniture and rapid mould manufacture, electronic component and artificial leather embossing.

## TYPICAL PROPERTIES

NO.		Items		Values
				TLR-306
Uncured	1	Appearance	A	White Liquid
	2	Viscosity at 25°C mPa.s	A	40000~50000
	3	Mix Ratio(wt)	A:B	100:3
	4	Working Time at 25°C min		50~70
	5	Full Cure Time at 25°C h		24
Cured	6	Tensile Strength Mpa		>4
	7	Elongation %		>300
	8	Durometer Hardness Shore A		35 ± 5
	9	Tear Strength kN/m		>10
	10	Volume Resistivity Ω·cm		1×10 <sup>13</sup>
	11	Dissipation Factor at 1MHz		8×10 <sup>-4</sup>
	12	Dielectric Constant at 1MHz		3.0
	13	Dielectric Strength KV/mm		≥15

## HOW TO USE AND CAUTIONS

- Before use, stir Part A thoroughly. The silicone rubber is designed to be used in a mix ratio of 100 parts Component A: 3 parts Component B by weight (customers can adjust mix ratio over a range of 100:1.5 to 100:3 according to the size and complexity of mold). When liquid components are thoroughly mixed and applied to electronic components, the mixture cures to elastomer at room temperature.
- The cure reaction begins when Parts A and B are mixed. Viscosity increases gradually (no obvious increase during working time). In order to avoid waste, it is recommended to weigh proper quantity according to demand when you prepare to use.
- Working time depends on following factors: quantity of crosslinker and temperature. More crosslinker and higher temperature require shorter cure time.

- Evacuate bubbles under vacuum before pouring. If necessary, repeat this process after pouring to ensure no bubbles get into components.
- Containers should be kept tightly closed after use, as Part B is easy to go bad if absorb moisture.

### **PACKAGE, STORAGE AND TRANSPORTATION**

- This product is provided in 20kg plastic drums. Other package is available upon negotiation.
- During storage and transportation, keep this product dry, sunshine proof and rain proof. This product has a usable life of 12 months from the date of production. If time expires, it can be used when inspection proves it to be qualified.
- For storage and transportation of this product, Regulations on Non-Hazardous Articles apply.

### **SAFETY AND ENVIRONMENTAL INFORMATION**

- The product is non-hazardous chemical. For storage and transportation, Regulations on Non-Hazardous Articles apply. During operation, it is non-toxic to human body and does not pollute the environment.
- For used packing material, dispose of in accordance with local regulations.

### **NOTES**

- The above-printed information is deemed to be reliable by our company. The data in the description is not the standard value. The contents, product property and specifications are subject to change without notice.
- Our company only guarantees that the product is in compliance with the specifications. The users are advised to make tests before using this product in order to determine whether this product is suitable for the intended application because different conditions for use, different ways of storage and transportation and the different operating processes are out of our control.
- Part of the property parameters can be especially adjusted as per the customer's requirement. For adjustment, please contact our Marketing Department.
- Our products are developed for use in general electronic industry. If other applications are intended, tests must be done to comply with the requirement according to legal rules.
- For further information, please consult our Marketing Department.

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