

# UV Curing Silicone Gel

## Features

### ● Vibration suppression for precision equipment

α GEL effectively suppresses vibration of microscopic precision equipment with its fine-tuned softness and other superior properties such as complex modulus and loss factor.

### ● Long-term experience in optical pickups.

We have extensive experience for many years in various types of pickups for CD, MD, MO and DVD as well as the latest Blu-ray.

### ● Wide range of products

There are ten types of standard products and many customized products which can be well designed and quality-controlled by Dynamic viscoelasticity equipment.

### ● Compliance with various environmental regulations

Our products comply with wide range of regulations for environmental load substances and regulated substances; including RoHS Directive restricted substances and REACH-SVHC candidate substances. Our products are manufactured at their own production lines in a Green Partner (GP) certified factory.

### ● Short curing time

UV cure α GEL reaches its final hardness in  $100\text{--}300\text{mW}/\text{cm}^2 \times 20\text{--}30$  seconds in order to reduce production time.

### ● UV curing system in simple way

α GEL cures to the desired status with UV irradiation above a certain level.

### ● Easy handling and storage

UV curing silicone gel can be stored at room temperature in a dark place. The products are filled in opaque containers for easy handling. Their also can be used with syringes or other devices for various applications.



## Applications

### Vibration Dampening, Shock Absorption and stress relief

- Optical Pick-up unit
- Micro parts for Smart Phone, Mobile Phone, DSC, DVC and others.
- Micro Speaker
- Micro Actuator
- Ultra-precise Device

## Packing

Products are packed in UV resistant bottle or syringe.

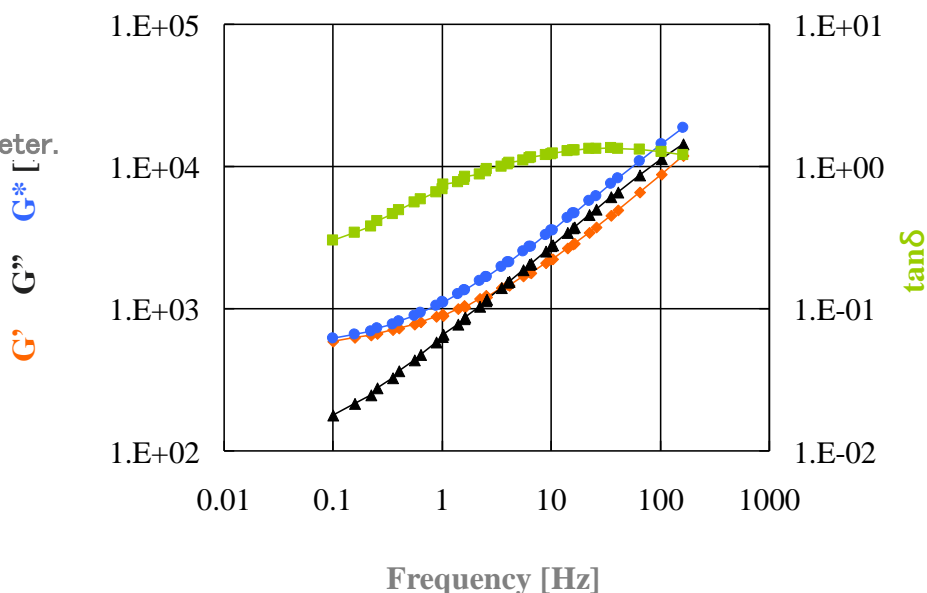


## General Characteristics

Samples	Complex Modulus $G^*$ (10Hz)	Loss factor ( $\tan\delta$ )	Initial Viscosity (Rotary speed)	Appearance
Silicone GEL B	2,700 Pa	1.9	6 Pa·s (40 rpm)	Opaque White
Silicone GEL C	3,500 Pa	0.7	3 Pa·s (40 rpm)	Transparent
Silicone GEL E	4,300 Pa	1.5	7 Pa·s (40 rpm)	Opaque White
Silicone GEL G	6,800 Pa	1.1	9 Pa·s (40 rpm)	Opaque White
Silicone GEL H	7,500 Pa	1.2	15 Pa·s (10 rpm)	Opaque White
Silicone GEL J	8,200 Pa	1.6	50 Pa·s (10 rpm)	Opaque Pink
Silicone GEL L	24,500 Pa	0.8	28 Pa·s (10 rpm)	Opaque White

The values of Complex modulus and Loss factor are after UV curing.  
The values of Initial Viscosity are before UV curing.

(Example)  
Measured by  
a dynamic viscoelasticity meter.



## Notes

- The above data are measured data, not guaranteed specifications.
  - The contents may be changes without pre-notice due to an improvement or change of the specification of this products.
  - It is recommended to conduct pre-tests at your site in order to confirm suitability for your applications.
  - These products are developed for general industrial applications. These must not be used for medical implant products.
  - These products become hardened even under fluorescent lamps, because fluorescent lamps emit UV light. Do NOT expose the products to fluorescent lamps. UV-cut lights are recommended.
  - Silicone oil may bleed under certain usage condition.
  - Low molecular siloxane is included in this product basically composed of silicone.
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