

Two Component Silicone Gel

SI2707



■ Product Description

SI2707 is light blue silicone gel with slight hardness, after cured it will become elastomer with buffer and self-recovery property. Used to isolate moisture and other noxious pollutant from contacting the circuit board, also used as dielectric of high voltage. The other usage is stress relief for protecting circuit and interconnect devices from high temperature and mechanical stress.

■ Key Features

1. 1:1 addition type, good adhesive strength and self-healing
2. High elongation, excellent flexibility for mechanical stress relieving
3. Low oil penetration after cured, good anti-poisoning property
4. Good dielectric in high temperature for high voltage protection
5. Excellent aging resistance and weatherability
6. Excellent waterproof, corrosion prevention, moisture proof and chemical media resistance

■ Typical Applications

Used for encapsulation of various modules, semi-conductor, IGBT, automotive ECU module, IC chip, weighing sensor, waterproof connector.

■ Technical Data Table

PROPERTY	STANDARD/UNITS	VALUE of SI2707	
		PART A	PART B
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Material	----	Polysiloxane	Hydrogen polysiloxane
Color	Visual inspection	Light Blue Liquid	Colorless Liquid
Viscosity	25 °C, cps	800±200	400±100
Density	25 °C, g/cm ³	1.00	1.00
Mixture/mass ratio	----	A:B=100:100	
Viscosity of mixture	25 °C, cps	600	
Operation time	25 °C, min	30±10	
Fixture Time	25 °C, min	40±10	
Cure condition	25 °C	< 8 hour	
Cured appearance	----	Light blue transparent gel	

SI2707

Technical Data Sheet



Hardness	Shore A	20±2
Dielectric strength	KV/mm	25
Volume resistance	DC500V, ohm-cm	1.0×10 ¹⁴
Loss factor	1 MHz	< 0.001
Dielectric constant	1 MHz	2.8
Application temperature	℃	-60~260

Note: All above data were tested under standardized condition, or tested by further experiments.

■ Directions for Use

1. Mix Part A and Part B by 1:1 mass ratio, after evenly mixed, pouring directly into the components or modules as per requirements.
2. Still the potted component to let out the bubbles. The operation time is short, can cure in a short time, the fixture time is about 30 to 40 minutes, potting equipment is recommended for application.
 - Vacuum defoaming can improve the performance of cured product.
 - Seal the remaining products tightly after use.
 - Low temperature will slow the curing speed; heat curing is recommended.
 - It's hard for SI2707 to cure if contact with sulfur, amine or Sn

■ Packing and Storage

Part A—10 KG/Bucket, Part B—10 KG/ Bucket.

When stored at or below 25 °C in the original unopened containers, this product has a usable life of 12 months from the date of production. Sampling test is necessary for products which exceed shelf life before taking use.

It's non-dangerous goods, can be transported as normal chemicals, CAUTION leakage during transport.

■ Safety Operation Data

MSDS isn't included here. Please read TDS, MSDS and label carefully before operation. You can get MSDS from SEPNA or other distributors, or mail to service center sepna@sepna.cc, or call +86-400-882-1323.

■ Warranty and Liability

All product properties and application details based on information believe to be reliable and accurate. But you still need to test its property and safety before application. The advices we supply don't apply in any circumstances. SEPNA don't make assurance of any other applications outside the specification until SEPNA supply a special written guarantee. SEPNA is only responsible to replace or refund if this product is defective within the warranty period stated above. SEPNA makes it clear that will not be liable of any accidents.