

One Component RTV Silicone Adhesive

SI1916 Series



■ Product Description

SI1916 series are neutral organic silicone adhesive sealant, room temperature cured through contacting with the moisture in the air. Non-toxic, environmentally friendly products, compliant with RoHS, Reach and FDA. Used for protection of electronic products which under the harsh conditions, with good adhesion to most kinds of material.

■ Key Features

1. Excellent chemical resistance
2. The cured elastomer with good elasticity, scrubbing resistance, adhesion performance
3. Moisture, dirt and other atmospheric composition proof
4. Relieving the mechanical stress and tension that caused by machinery, heat shock and vibrate
5. Good corona resistance and electrical insulation performance
6. Excellent outdoor aging-resistance for 20-30 years
7. Excellent high temperature resistance, stable mechanical and electrical properties between -60-260 °C

■ Typical Applications

Used for bonding and sealing of household appliances, industry components, machinery, PV modules, LED lamps, PCB and electronic components. etc.

■ Technical Data Table

PROPERTY	STANDARD/UNIT	VALUE		
Before curing		SI1916B/W/G	SI1916-1	
Color	Visual inspection	Black/white/gray	Transparent	White
Viscosity	25 °C, mPa • s	paste	Semi-flow fluid	paste
Density	25 °C, g/cm ³	1.25	1.05	1.25
Tack free time	25 °C, 55%RH, min	10~15	10~15	10~15
After cured		Room temperature curing		
Hardness	Shore A	32±3	22±3	32±3
Thermal conductivity	W/m.K	0.336	0.247	0.336
Elongation at break	%	>200	>200	>200
Tensile strength	MPa	1.2	1.8	2.0
Shear strength	MPa, iron/iron	1.2	1.5	1.8

SI1916 Series

Technical Data Sheet



Dielectric strength	kV/mm, 25 °C	20	20	20
Loss factor	1 MHz, 25 °C	0.09	0.09	0.09
Dielectric constant	1 MHz, 25 °C	2.9	2.9	2.9
Volume resistance	(DC500V) $\Omega \cdot \text{cm}$	2.0×10^{14}	2.0×10^{14}	2.0×10^{14}

Note: All data above were tested under special condition (7 days after fully cured in the environment of 25 °C, 55%RH). Only as a reference value, cannot be considered in any state are applicable.

■ Directions for Use

1. **Cleaning:** cleaning the surfaces that to be glued and coated, removing the rust, dust, greasy dirt and other foreign matter and substance.
2. **Gluing:** cutting nozzle to the required angle (piercing the sealing cap tip for these sealing rubber hose), extruding the liquid cement to the cleaned surface and making it well-distributed, then folding and fixing the glued surfaces. Please consult the Sepna market department when come into the dispensing equipment.
3. **Curing:** placing the glued or sealed components in the air to curing for 24 hours before put into use.
4. **Attention:** tightening and sealing preserve the leftover sealant after the operation. Removing the cured cement at the sealing part that might happen during the preservation, it could be normally used again.

■ Packing and Storage

310ml/tube, 25 tubes/carton.

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 and stored as normal chemicals.

■ 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.