

## Silopren\* Gel 6209

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#### Description

Silopren Gel 6209 is a kit matched easily pourable, solvent free, clear and colourless two-component silicone gel. After mixing the A and the B component at a mix ratio of 1:1 the material cures at room temperature by an addition reaction to a tacky silicone gel with excellent vibration dampening properties. The cure rate can be accelerated significantly by heat.

#### Key Features and Benefits

- Convenient 1:1 mixing by weight
- Low Viscosity, free of solvents
- Room temperature cure
- Mechanical shock/ vibration damping properties
- Very soft gel, tacky to many substrates

#### Typical Physical Properties

Uncured / Mixed Properties		A	B
Colour		Clear, Colourless	Clear, colourless
Viscosity @ 23°C Bohlin	mPa·s	900	600
Pot Life @ 23°C	min	60	

Cured Properties 1hr at 100°C		
Penetration, ¼ cone (9.4 gr)	1/10mm	90
Density	g/cm <sup>3</sup>	0.98
Dielectric Properties		
Dielectric strength	kV/mm	20
Dielectric constant @ 60 Hz		2.8
Dielectric Loss Factor @ 60Hz		0.001
Volume Resistivity	ohm.cm	1.0 x 10E15
Thermal Properties		
Thermal Conductivity	W/m.k	0.17
Volume Expansion	1/°C	1.0 x 10E-3

### **Potential Applications**

Silopren Gel 6209 is specially developed for electronic potting applications such as hybrid IC insulation, potting of power modules and potting of cable joints.

Silopren Gel 6209 can also be used for other applications that require a clear, tacky gel with good dampening properties.

### **Patent Status**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

### **Product Safety, Handling and Storage**

The shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 4 months when stored in the original unopened containers at temperatures of 27°C or below.

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### **Processing Recommendations**

#### **Mixing:**

Silopren Gel 6209 is a kit-matched product. As such, pot life, cure time and final cure properties can only be assured if the batch numbers on the A component and B component are identical and the material is mixed at a ratio of 1:1 (by weight)

Select a clean mixing container 4-5 times larger than the volume of the silicone gel to be used. Weigh out equal amounts of the A and B components. With clean tools, thoroughly mix the A and B components together, scraping the sides and bottom of the container carefully to produce a homogeneous mixture. Care should be taken to minimize the amount of air entrapment. A vacuum of 10 - 20 mbar can be used to remove entrapped air from the uncured mixture. For use in continuous or high volume production environments, the use of automatic meter/mix dispensing equipment is advised.

When using power mixers, avoid excessive speeds, which could cause overheating of the mixture resulting in shorter pot life

#### **Compatibility:**

Silopren Gel 6209 will cure when applied to a clean, dry surface, which has been properly prepared. Certain materials such as butyl and chlorinated rubber, sulfur containing materials, amines and certain metal soap-cured RTV silicon rubber compounds can cause cure inhibition. Cure inhibition is characterized by a gummy appearance of the silicone at the interface between the silicone and the substrate.

### **Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

### **Availability**

The material is commercially available in 37 kg pail kits and 380 kg drum kits.

### **Contact Information**

For product prices, availability, or order placement, contact our customer service at [Momentive.com/Customerservice/](https://www.momentive.com/Customerservice/)

For literature and technical assistance, visit our website at: [www.momentive.com](https://www.momentive.com)

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