

## Silopren™ Gel 6209FC

### Description

Silopren Gel 6209FC is a kit matched easily pourable, solvent free, clear and colourless two-component silicone gel. After mixing the A and the B part at a mix ratio of 1: 1 the material cures very fast at room temperature by an addition reaction to a tacky silicone gel with excellent vibration dampening properties.

### Key Features and Benefits

- Convenient 1: 1 mixing by weight
- Low viscosity, free of solvents
- Fast room temperature cure
- Soft, tacky gel, sticking to many substrates
- Mechanical shock and vibration damping properties
- Useful temperature range –50°C to 150 °C

### Typical Physical Properties

Uncured Properties		Gel 6209FC (A)	Gel 6209FC (B)
Colour		Clear, colourless	Clear, colourless
Consistency		Easily pourable	Easily pourable
Viscosity	mPa.s	1000	1000
Specific gravity	g/cm <sup>3</sup>	0.98	0.98
Uncured / Mixed properties		Gel 6209FC	
Mix ratio		1:1	

Colour		Clear, colourless
Consistency		Easily pourable
Viscosity	mPa.s	1000
Work time @ 23 °C *	Minutes	30

Cured properties (Cured 1 hr @ 100 °C)		
Mechanical		Gel 6209FC
Penetration, 1/4 cone (9.4g), 1/10mm		85
Density	g/cm <sup>3</sup>	0.98
Refractive index		1.41
Electrical		
Dielectric strength	kV/mm	20
Dielectric constant (@ 60 Hz)		2.8
Dissipation factor (@ 60 Hz)		0.001
Volume resistivity	Ω . cm	2.0 x 10 <sup>15</sup>
Tracking Resistance	CTI	>600
Thermal		
Useful temp. range	°C	-50 to 150
Thermal conductivity *	W/m . K	0.17
Coefficient of Linear Expansion *	1/ K	30 x 10 <sup>-5</sup>

Typical properties are not to be used as or to develop specifications.

### Potential Applications

Silopren Gel 6209FC is specially developed for electronic potting applications such as hybrid IC insulation, potting of power modules and sensors when fast cure at room temperature is required.

### 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

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.

### Limitations

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

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