

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 ³	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 ³	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 ¹⁵
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 ⁻⁵

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

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Product Safety, Handling and Storage

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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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