

# Dielectric Silicone Gel Potting Materials



**Momentive Performance Materials provides leading-edge silicone technologies to help meet performance and productivity challenges in a wide range of automotive and electronic applications.**

Momentive's dielectric silicone gel materials are extremely soft, lightly cross linked silicone polymers providing good stress relief and self healing properties while maintaining dimensional stability and providing a tacky adhesion. These properties make the dielectric gels excellent candidates to consider for protection of fragile electronic components from moisture and contaminants. Momentive offers a range of Room Temperature cure gels including one and two part products, and specialized grades that can help provide improved vibration dampening, very fast RT cure and UV activated cure.

### Key Features Available

- Temperature resistance
- Low modulus, good dampening properties
- Low viscosity
- Tacky adhesion at RT
- High dielectric strength (> 18 kV/mm)

### Key Typical Benefits

- Under the hood usage
- Thermal and mechanical stress protection
- Easily flows around components
- Prevent formation of thermally induced voids
- Reliability

### Potential Application Examples

- Sensor potting
- ECU potting
- Power module potting
- Cable joints

**Adhesives & Sealants** (selected grades only, please contact us for material selection support)

Product	System <sup>1</sup>	Ratio (w/w)	Cure Time	Work life (min @ RT)	Penetration <sup>2</sup> (1/10 mm)	Viscosity (Pa.s)	Feature
TSE3051	AC, 1K	n.a.	1 h @ 150°C	--	85	0.7	1K - Easy handling
UV Gel 100	UV, 2K	10:1	5 min @ RT	> 3 days	50	1	Fast UV cure at RT
TSE3070	AC, 2K	1:1	0.5 h @ 70°C	4 hrs	65	0.8	Excellent vibration damping – high elongation
TSE3062	AC, 2K	1:1	0.5 h @ 70°C	1 hr	55	1	Excellent temperature stability
Silopren* Gel 6209FC	AC, 2K	1:1	1 h @ 100°C	0.5 hr	85	1	Excellent vibration damping
Silopren Gel 7212	AC, 2K	1:1	1 h @ 100°C	0.75 hr	120	1.5	Very soft gel
Silopren Gel 7206	AC, 2K	1:1	20 minutes at 23°C	10 minutes	70	0.15	Low viscosity very fast RT cure

<sup>1</sup> AC = Addition Cure / CC =- Condensation Cure

<sup>2</sup> Penetration in 1/10 of a mm - measured with quarter cone

Typical data are average and actual values may vary.  
 Typical data shall not be used as product specifications.  
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