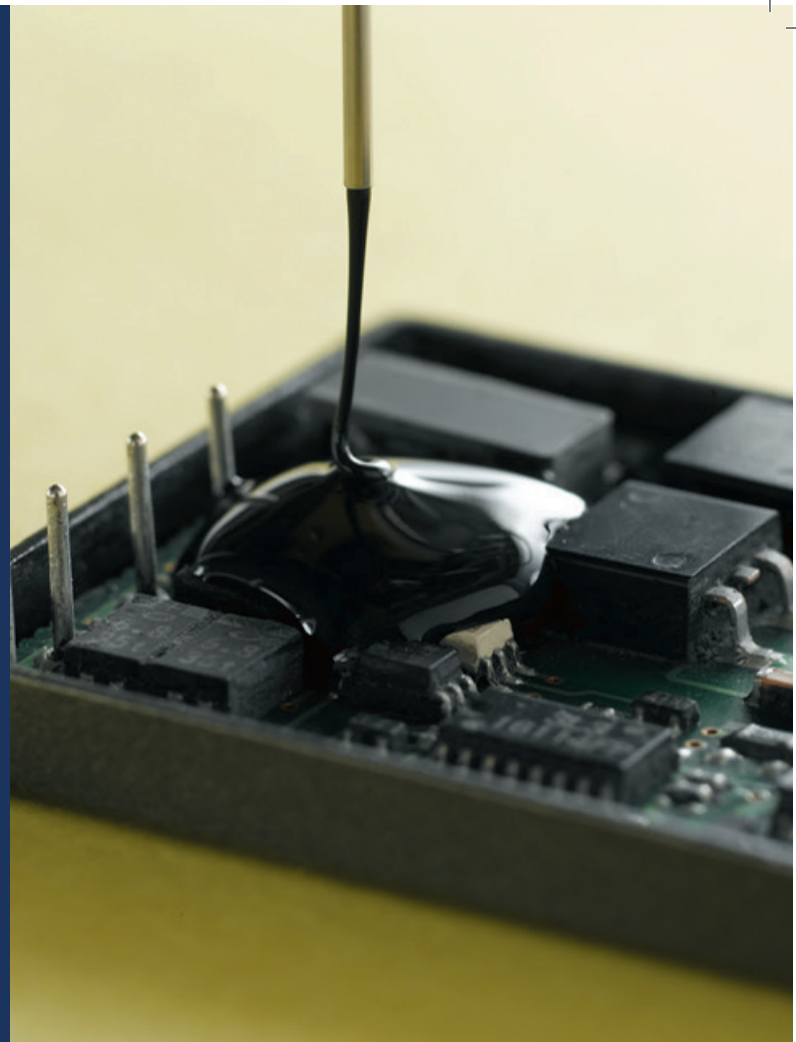




## Protective Silicone Potting & Encapsulation Materials



**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 potting and encapsulation materials are excellent candidates to consider to protect electronic components from moisture and harmful contaminants. These materials help provide stress relief protection to circuits from thermal, vibration, and mechanical stress. Momentive offers a range of materials including one and two part products and specialized grades that can provide thermal conductivity, flame retardancy, and low volatiles.

### Key Features

- Temperature resistance
- Low modulus, good dampening properties
- Low viscosity
- Very fast cure
- High dielectric strength
- Self healing gels

### Typical Benefits

- Thermal and mechanical stress protection
- Easily flows around components
- Productivity, high outputs
- Reliability
- Probe testable

### Potential Applications

- ECU potting
- Air flow mass meter
- Sensor potting
- LED encapsulants

## Typical Physical Properties

(selected grades only; please contact us for material selection support)

| Product     | System (1) | Ratio (w/w) | Cure Time      | Color      | Type   | Viscosity (Pa·s) | Feature  |
|-------------|------------|-------------|----------------|------------|--------|------------------|--|
| TSE3051     | AC, 1K     | n.a.        | 1 h @ 150°C    | Clear      | Gel    | 0.7              | 1 Part - Easy handling                               |
| TSE3070     | AC, 2K     | 1:1         | 0.5 hr @ 70 °C | Clear      | Gel    | 0.8              | Excellent vibration damping                          |
| TSE3032     | AC, 2K     | 10:1        | 1 hr @ 100°C   | Clear      | Rubber | 4                | Non bonding  |
| TSE3033     | AC, 2K     | 1:1         | 30 min @ 150°C | Clear      | Rubber | 1                | Self bonding   |
| TSE3331K-EX | AC, 2K     | 1:1         | 10 min @ 100°C | Dark grey  | Rubber | 3                | UL94 - V0. Thermal conductive                        |
| TSE3251     | AC, 1K     | n.a.        | 1 hr @ 150°C   | White      | Rubber | 8.5              | 1K - Easy handling                                   |
| TSE3667     | CC, 2K     | 100:8       | 24 hr @ RT     | Dark grey  | Rubber | 3                | Low temp adhesion, UL-94 V-0, good deep section cure |
| RTV11       | CC, 2K     | Variable    | 24 hr @ RT     | White      | Rubber | 11               | FDA compliant (2), deep section cure possible        |
| TSE3660     | CC, 2K     | 100:8       | 24 hr @ RT     | Light blue | Rubber | 3                | Low temp adhesion, good deep section cure, UL-94 HB  |

(1) AC = Addition Cure, CC = Condensation Cure

(2) Compositionally compliant with the requirements of 21 CFR 177.2600 - Rubber articles intended for repeated use have been found, through testing of a representative sample, to meet the extractives limitations in 21 CFR 177.2600(e) and/or (f). It is the responsibility of the user to determine that the final product complies with the extractive limitations and other requirements of 21 CFR 177.2600 under their specific manufacturing procedures.

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



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#### 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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