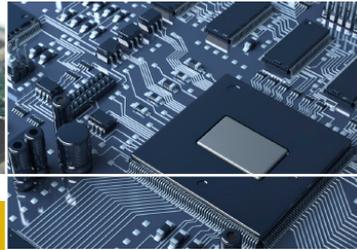


# Thermal Management Silicones



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

Long-term, reliable protection of sensitive electronic components is essential to many applications today. Increasingly small systems and rising circuit densities have resulted in higher operating temperatures, and driven demand for high-performance solutions for heat dissipation.

**Key Features**

- Good mechanical properties
- Ageing stable elasticity
- Low thermal resistance at thin bond lines
- Very fast cure

**Key Typical Benefits**

- Reliability
- Compensate for CTE mismatch
- Extended component life
- High Productivity

**Potential Application Examples**

- Power modules
- Sensors
- Board assemblies
- LED assemblies

| Thermal Management Materials (selected grades only, please contact us for material selection support) |                     |          |                        |                       |       |               |   |
|---|---------------------|----------|------------------------|-----------------------|-------|---------------|---|
| Product   | System <sup>1</sup> | Type     | Cure Time <sup>2</sup> | Thermal Cond. (W/m-K) | Color | Flowability   | Feature   |
| TIG210BX  | TIG                 | Grease   | n.a.                   | 2.1                   | Grey  | Non Flowable  | Low bleed grease  |
| TIG830SP  | TIG                 | Grease.  | n.a.                   | 4.1                   | Grey  | Non Flowable  | Screen printable grease   |
| TIA216G   | AC, 2K              | Gel      | 30 min @ 70 °C         | 1.6                   | Grey  | Flowable      | 8 Pa.s, soft rubber, tacky adhesion, re-mixing required prior to use. |
| TIA221G   | AC, 2K              | Gel      | 30 min @ 70 °C         | 2.1                   | Grey  | Flowable      | 70 Pa.s, soft rubber, tacky adhesion, UL94-V0                         |
| TSE 3281-G  | AC, 1K              | Adhesive | 30 min @ 150°C         | 1.7                   | Grey  | Flowable      | Adhesive  |
| XE 13-C1862 PT  | AC, 1K              | Adhesive | 30 min @ 150°C         | 2.4                   | Grey  | Flowable      | High elongation, pin transferable                                     |
| XE11-B5320  | CC, 1K              | Adhesive | TFT 5 min @ RT         | 1.24                  | White | Non Flowable  | Adhesion at RT, low volatile  |
| TIA0220   | CC, 1K              | Adhesive | TFT 10 min @ RT        | 2.2                   | Grey  | Semi Flowable | Adhesion at RT, high thermal conductivity                             |

<sup>1</sup> AC = Addition Cure / CC = Condensation Cure / TIG = Thermal Interface Grease

<sup>2</sup> TFT = Tack Free Time

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



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