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
- Property stability under harsh operating conditions
- Low thermal resistance at thin bond lines
- Very fast cure

**Typical Benefits**
- Reliability
- Compensate CTE mismatch
- Extended component life
- High productivity

**Potential Applications**
- Power modules
- Sensors
- Board assemblies
- LED assemblies
### Thermal Management Materials Typical Properties

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

<table>
<thead>
<tr>
<th>Product</th>
<th>System (1)</th>
<th>Type</th>
<th>Cure Time (2)</th>
<th>Thermal Cond. (W/m·K)</th>
<th>Color</th>
<th>Flowability</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIG2108X</td>
<td>TIG</td>
<td>Grease</td>
<td>n.a.</td>
<td>2.1</td>
<td>Grey</td>
<td>Non-flowable</td>
<td>Low bleed grease</td>
</tr>
<tr>
<td>TIG830SP</td>
<td>TIG</td>
<td>Grease</td>
<td>n.a.</td>
<td>4.1</td>
<td>Grey</td>
<td>Non-flowable</td>
<td>Screen printable grease</td>
</tr>
<tr>
<td>TIA216G</td>
<td>AC, 2K</td>
<td>Soft rubber</td>
<td>30 min @ 70°C</td>
<td>1.6</td>
<td>Grey</td>
<td>Flowable</td>
<td>8 Pa.s; tacky adhesion; UL94-V0, UL RT 150 °C</td>
</tr>
<tr>
<td>TIA222G</td>
<td>AC, 2K</td>
<td>Soft rubber</td>
<td>30 min @ 70°C</td>
<td>2.2</td>
<td>Grey</td>
<td>Flowable</td>
<td>20 Pa.s; tacky adhesion; UL94-V0</td>
</tr>
<tr>
<td>TIA225GF</td>
<td>AC, 2K</td>
<td>Gap Filler</td>
<td>30 min @ 70°C</td>
<td>2.5</td>
<td>Grey</td>
<td>Non-flowable</td>
<td>Soft stress-absorbing rubber; can cure at room temp</td>
</tr>
<tr>
<td>TSE3281-G</td>
<td>AC, 1K</td>
<td>Adhesive</td>
<td>30 min @ 150 °C</td>
<td>1.7</td>
<td>Grey</td>
<td>Flowable</td>
<td>Adhesive</td>
</tr>
<tr>
<td>XE13-C1862PT</td>
<td>AC, 1K</td>
<td>Adhesive</td>
<td>30 min @ 150 °C</td>
<td>2.4</td>
<td>Grey</td>
<td>Flowable</td>
<td>High elongation; pin transferable</td>
</tr>
<tr>
<td>XE1-85320</td>
<td>CC, 1K</td>
<td>Adhesive</td>
<td>TFT 5 min @ RT</td>
<td>1.3</td>
<td>White</td>
<td>Non-flowable</td>
<td>Adhesion at RT</td>
</tr>
<tr>
<td>TIA0220</td>
<td>CC, 1K</td>
<td>Adhesive</td>
<td>TFT 10 min @ RT</td>
<td>2.2</td>
<td>Grey</td>
<td>Semi-flowable</td>
<td>Adhesion at RT; high thermal conductivity</td>
</tr>
<tr>
<td>TIA0260</td>
<td>CC, 1K</td>
<td>Adhesive</td>
<td>TFT 10 min @ RT</td>
<td>2.6</td>
<td>Grey</td>
<td>Semi-flowable</td>
<td>Adhesion at RT; high thermal conductivity, UL94-V0</td>
</tr>
<tr>
<td>TIA350R</td>
<td>AC, 1K</td>
<td>Adhesive</td>
<td>30 min @ 120°C</td>
<td>3.5</td>
<td>Grey</td>
<td>Semi-flowable</td>
<td>High thermal conductivity</td>
</tr>
</tbody>
</table>

(1) **AC = Addition Cure / CC = Condensation Cure / TIG = Thermal Interface Grease**

(2) **TFT = Tack Free Time**

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

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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.

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