Dow Corning® 340 Heat Sink Compound

FEATURES & BENEFITS
- Non-flowing
- Moderate thermal conductivity
- No need for ovens or curing
- Heat flow away from electronic components can increase reliability

COMPOSITION
- Zinc Oxide
- Polydimethylsiloxane

DESCRIPTION
Dow Corning® brand thermally conductive compounds are grease-like silicone materials, heavily filled with heat-conductive metal oxides. This combination promotes high thermal conductivity, low bleed and high-temperature stability. The compounds are designed to maintain a positive heat sink seal to improve heat transfer from the electrical/electronic device to the heat sink or chassis, thereby increasing the overall efficiency of the device. Electronic devices are continually designed to deliver higher performance. Especially in the area of consumer electronics, there is also a continual trend towards smaller, more compact designs. In combination these factors typically mean that more heat is generated in the device. Thermal management of electronic devices is a primary concern of design engineers. A cooler device allows for more efficient operation and better reliability over the life of the device. As such, thermally conductive compounds play an integral role here. Thermally conductive materials act as a thermal “bridge” to remove heat from a heat source (device) to the ambient via a heat transfer media (i.e. heat sink). These materials have properties such as low thermal resistance, high thermal conductivity, and can achieve thin Bond Line Thicknesses (BLTs) which can help to improve the transfer of heat away from the device.

APPLICATION METHODS
- Automated or manual dispensing.

APPLICATIONS
- Dow Corning® 340 Heat Sink Compound is suitable for thermal coupling of electrical/electronic devices to heat sinks.

TYPICAL PROPERTIES
Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>One or Two-part</td>
<td>One</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td></td>
<td>White</td>
</tr>
<tr>
<td>Viscosity</td>
<td>cP</td>
<td>542,000</td>
</tr>
<tr>
<td></td>
<td>Pa-sec</td>
<td>542</td>
</tr>
<tr>
<td>Specific Gravity (Uncured)</td>
<td></td>
<td>2.1</td>
</tr>
<tr>
<td>Bleed</td>
<td>%</td>
<td>0.23</td>
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<tr>
<td>Thermal Conductivity</td>
<td>btu/hr-ft-°F</td>
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<tr>
<td></td>
<td>W/m-K</td>
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<tr>
<td>Thermal Resistance at 40 psi</td>
<td>°C*cm2/W</td>
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<tr>
<td>Penetration (worked)</td>
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<td>290</td>
</tr>
<tr>
<td>Evaporation</td>
<td>%</td>
<td>0.38</td>
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<tr>
<td>Shelf Life at 38 °C</td>
<td>months</td>
<td>60</td>
</tr>
</tbody>
</table>

TYPICAL PROPERTIES
Dow Corning® 340 Heat Sink Compound is suitable for thermal coupling of electrical/electronic devices to heat sinks.
**SOLVENT EXPOSURE**  
In general, the product is resistance to minimal or intermittent solvent exposure, however best practice is to avoid solvent exposure altogether.

**USABLE LIFE AND STORAGE**  
The product should be stored in its original packaging with the cover tightly attached to avoid any contamination. Store in accordance with any special instructions listed on the product label. The product should be used by the indicated Exp. Date found on the label.

**HANDLING PRECAUTIONS**  
**PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.**

**LIMITATIONS**  
This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**HEALTH AND ENVIRONMENTAL INFORMATION**  
To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

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The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer’s tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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