Technical data sheet



Product:	340
Manufacturer:	DOWSIL
Product group:	KLEBSTOFF
Article group:	1-K SILIKON
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## DOWSIL<sup>™</sup> 340 HEAT SINK COMPOUND

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## DOWSIL<sup>™</sup> 340 Heat Sink Compound

White, non-curing and non-flowing thermally conductive compound

Features & Benefits	<ul> <li>Non-flowing</li> <li>Moderate thermal conductivity</li> <li>No need for ovens or curing</li> <li>Heat flow away from circuitry components can increase reliability</li> </ul>
Composition	<ul><li>Zinc oxide</li><li>Polydimethylsiloxane</li></ul>
Applications	<ul> <li>DOWSIL<sup>™</sup> 340 Heat Sink Compound is suitable for thermal coupling of electrical devices and PCB assemblies to heat sinks.</li> </ul>

## **Typical Properties**

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result	
One or Two-part		One	
Color		White	
Viscosity	cP	542,000	
	Pa-sec	542	
Specific Gravity (Uncured)		2.1	
Bleed	%	0.23	
Thermal Conductivity	btu/hr-ft-°F	0.39	
	W/m-K	0.67	
Thermal Resistance at 40 psi	°C*cm²/W	0.16	
Penetration (Worked)	1/10 mm	290	
Evaporation	%	0.38	
Shelf Life at 38°C	months	60	

Description	Dow 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 device or PCB system assemblies to the heat sink or chassis, thereby increasing the overall efficiency of the device. or PCB system assemblies are continually designed to deliver higher performance.
	generated in the device. Thermal management of PCB system assemblies 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
Solvent Exposure	In general, the product is resistance to minimal or intermittent solvent exposure, however best practice is to avoid solvent exposure altogether.
Handling Precautions	PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
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.
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 has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.
	For further information, please see our website, dow.com or consult your local Dow representative.

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Disposal Considerations	Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.
	It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.
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