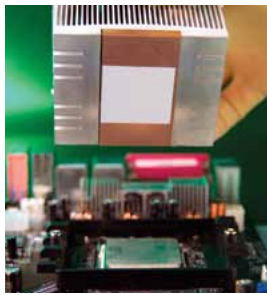


Dow Corning® TC-5622 Thermally Conductive Compound

Non-Curing, Thermally Conductive Compound



Description

Dow Corning® TC-5622 Thermally Conductive Compound is a high performance, thermally conductive compound designed for mid- to high-end electronic applications. *Dow Corning* TC-5622 Thermally Conductive Compound is formulated with optimized silicone polymers and thermally conductive filler particles to form a stable matrix that helps to improve reliability and resistance to hardening or dry out. The high thermal conductivity of *Dow Corning* TC-5622 Thermally Conductive Compound makes it ideal for a variety of applications where heat must be dissipated across varying bond line thickness (BLT).

Material Properties

Property	<i>Dow Corning</i> TC-5622 Thermally Conductive Compound Typical Values
Description	Thermally Conductive Compound
Form	Non-Curing Compound
Mix Ratio	1-Part (No Mixing)
Color	Gray
Viscosity Average	95,000 cP
Specific Gravity	2.5
Non-Volatile Content at 125°C	99.97%
Thermal Resistance @ 40 psi (ASTM D5470)	0.06°C-cm ² / W
Thermal Conductivity	4.3 W/m-K

Features

- Solvent-free formulation
- Easy application

Benefits

- Good stability and reliability
- Low thermal resistance
- High thermal conductivity

Potential Uses

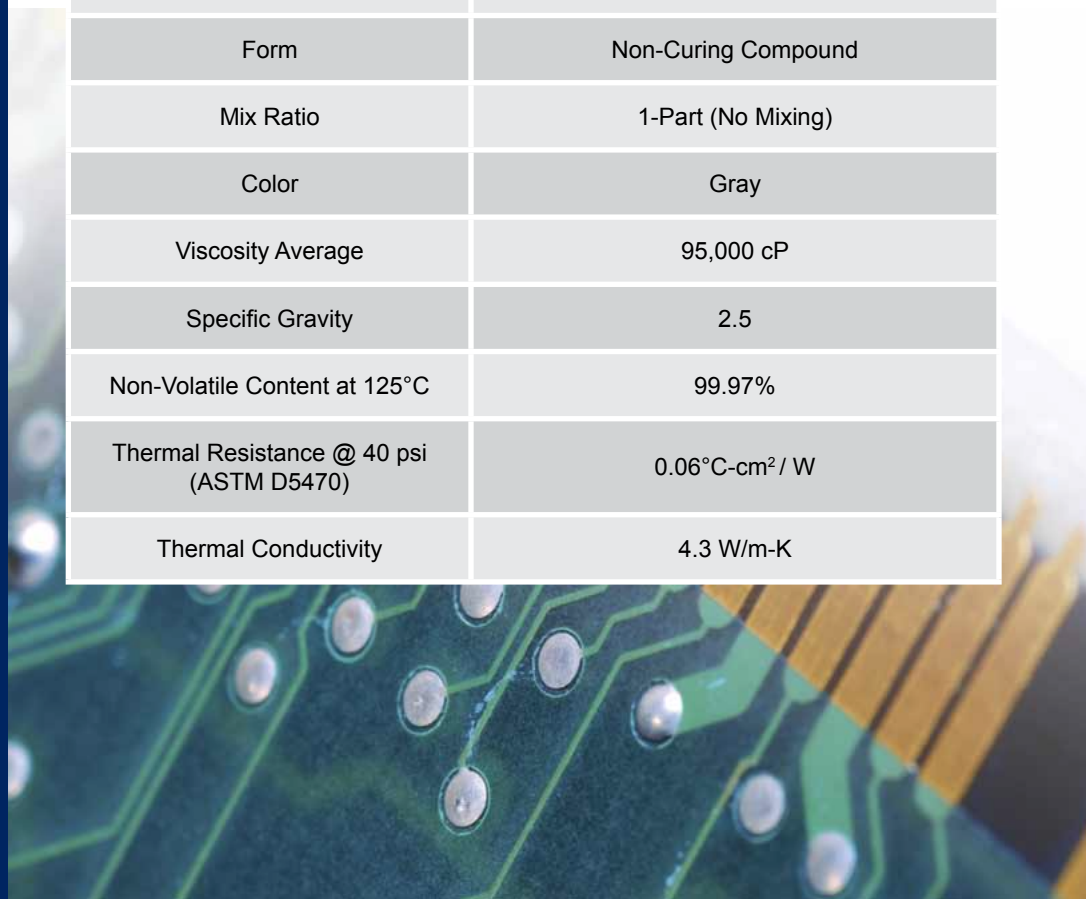
Thermal Interface Material (TIM) for heat dissipation use in a variety of medium to high power devices in electronics and other industrial applications.

Typical Applications

- Microprocessors
- LED assemblies
- Power modules

Application Methods

- Screen Print
- Stencil Print
- Dispense

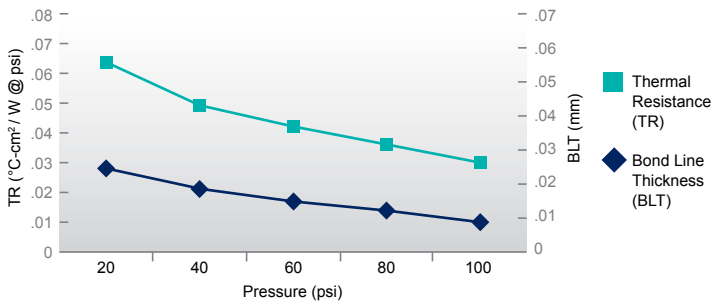


Important Features and Benefits

Features and Benefits	Attribute
Solvent-Free Formulation	<ul style="list-style-type: none"> No solvent evaporation <ul style="list-style-type: none"> Fewer volatiles in manufacturing environment No need for dilution to restore initial viscosity Consistent application throughout shifts
Easy Application	<ul style="list-style-type: none"> Optimized polymer matrix improves product rheology for screen and stencil printing applications
Good Stability and Reliability	<ul style="list-style-type: none"> Optimized polymer matrix improves resistance to hardening and dry out
High Bulk Thermal Conductivity	<ul style="list-style-type: none"> Good thermal performance in thicker BLT applications
Low Thermal Resistance	<ul style="list-style-type: none"> Good thermal performance in thin BLT applications

Thermal Resistance / BLT vs. Pressure

(Dow Corning® TC-5622 Thermally Conductive Compound)



Thermal Resistance Performance Data
(ASTM D5470, Guarded Hotplate)

Need Additional Help?

Dow Corning offers a broad range of thermal products and solutions to meet your current and emerging needs.

For additional information on the complete line of *Dow Corning*® brand thermal management products, please call your local sales office, see dowcorning.com/electronics, or email electronics@dowcorning.com.

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