

Surface Curing Thermally

Conductive Silicone Compound

TIS420C

LI-82-15472 Issued Oct., '15
Formulated Products Sector,
Electronics Business Technology, C&I
Momentive Performance Materials Japan

TIS420C is a thermally conductive silicone compound. It cures upon exposure to atmospheric moisture to form a cured rubber exterior surface, while maintaining a pasty mass consistency. It is suitable for use on various automated application and dispensing systems.

Key Features

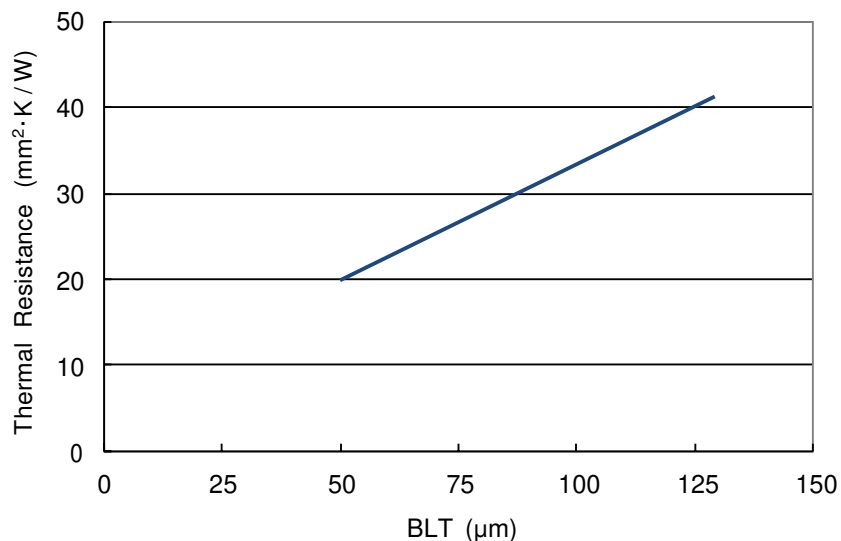
- High thermal conductivity.
- Hot and cold temperature resistance, enabling use in operating temperature ranges of $-40\sim 150^{\circ}\text{C}$.
- Extremely low oil bleed and volatile contents, leading to stability under high temperature environments
- Non-corrosive to metals.

Typical Properties

Uncured Properties		
Appearance / Color		Gray, Paste
Viscosity	Pa·s	300
Surface Cure Time	h	0.5
Cured Properties		
Appearance		Exterior: Cured Layer Interior: Pasty Mass
Density	g/cm^3	3.20
Thermal Conductivity	$\text{W}/\text{m}\cdot\text{K}$	4.2
Thermal Resistance (BLT)	$\text{mm}^2\cdot\text{K}/\text{W}$	20 (50 μm)
Volume Resistivity	$\text{M}\Omega\cdot\text{m}$	3.0×10^3
Dielectric Strength	$\text{kV}/0.25\text{mm}$	5.0
Low Volatile Siloxane (D ₄ -D ₁₀)	wt%	0.01

Typical property data values should not be used as specifications.

Thermal Resistance and BLT



TIS420C

LI-82-15472 Issued Oct., '15
Formulated Products Sector,
Electronics Business Technology, C&I
Momentive Performance Materials Japan

Handling and Safety

- Use appropriate eye protection and gloves when handling this product.
- If ingested, induce vomiting and consult a physician immediately.
- In case of contact to eyes, immediately flush with water for 15 minutes, and consult a physician.
- In case of contact to skin, wipe with cloth or paper, and rinse with soap and water.
- Store the product away from exposure to direct sunlight.
- Keep out of reach of children.

The logo for Silicone Solutions, featuring the words "SILICONE" and "SOLUTIONS" in a stylized, blue, sans-serif font. The letters are slightly shadowed and have a modern, clean appearance.The Momentive logo, consisting of the word "MOMENTIVE" in a bold, blue, sans-serif font. The letter "V" is stylized with a red and orange gradient.

A1 DISTRIBUTOR

For additional technical & application information:

Call: +44 (0) 1204 863290

sales@silicone-solutions.co.uk

www.siliconesolutions.co.uk