KSC1202

Two Component Thermally Conductive Silicone - High Viscosity

Description

KSC1202 is a high performance, high viscosity thermally conductive gap filling material. It is formulated to develop a soft, 'form in place' elastomer ideal for coupling hot PC board components to heat sinks.

KSC1202 is supplied as a two part, 1:1 mix ratio silicone that when mixed will cure at room temperature in approximately 2 hours.

Alternatively the mixed product can be exposed to a heat source of 150°C resulting in a cured elastomer in approximately 5 minutes.

Technical Features

Appearance - Part A:	White
Appearance - Part B:	Pink
State:	Paste
Specific Gravity:	2.80
Consistency:	Self levelling
Viscosity:	~150,000 cPs
Solids:	100%
Tack Free Time [1]:	60 minutes
Cured @ Room Temperature:	120 minutes
Cured @ 150°C:	~5 minutes
Durometer [2]:	70 Shore OO
Dielectric Strength:	500 V/mil
Dielectric Constant @ 100Hz:	7
Volume Resistivity:	10^{12} Ω.m
Thermal Conductivity:	2.0 W/m.K
Shelf Life @ 21°C [3]:	12 months

1 *At room temperature 21°C*

2 *ASTM D2240*

3 *In original unopened containers*

Product Features

- No odour
- No by-products
- Convenient 1:1 mix ratio
- Chemical cure system is Platinum catalyzed

Typical Applications

- Electronic component thermal dissipation
- Coupling electronic components
- 'Form in place' heat sink mounting

Adhesion

Primerless adhesion to most metals and typical substrates used in electronic components.

Limitations

Allow KSC1202 to fully cure before putting assembly into service.

Ensure enough product remains between flanges to be effective in an assembly.

Handling Precautions

This is a platinum catalyzed, addition cure system product.

The catalyst can be deactivated by exposure to sulphur containing compounds like thiols, sulphides, sulphates, organic rubber containing sulphur, latex rubber gloves, nitrogen containing compounds like amines, amides, imides, azides, tin metals, tin compounds or tin cured RTV's.

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General Information

Keep out of the reach of children.

Uncured sealant irritates eyes and skin.

For safe handling of this product consult the Safety Data Sheet.

Instructions for Use

Ensure parts are clean, dry and free from oil and grease.

Dispense product to ensure both sides are flowing freely. Then add mix nozzle to cartridge and purge one nozzle length worth of sealant to ensure fully mixed product.

Dispense product into cavity until fully encapsulated.

Storage

Store in a cool, dry area at temperatures below 20 °C out of direct sunlight.

For maximum shelf life, keep containers sealed when not in use.

Notes

The data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis.

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