

# KSC2040

# Electronic Silicone

# **Description**

KSC2040 is a thermally conductive silicone RTV adhesive rubber developed for heat sink applications.

KSC2040 is a 1-part silicone that when applied to the substrate enables adhesion to parts and heat transfer of the bonded assembly within minutes. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

KSC2040 works well in both manual and automatic dispensing equipment.

## **Technical Features**

Appearance: Grey Specific Gravity: 1.62

Consistency: Thixotropic Paste Viscosity: ~600,000 cPs

Solids: 98%
Working Time 1: 8 minutes
Tack Free Time 1: 20 minutes

Full Cure 1: 72 hours

Application Rate: 250 g/min @ 6 Bar

Durometer: 40 Shore A
Tensile Strength: 1.5 - 2 N/mm²

Elongation to Break: 250%

Thermal Conductivity: 0.63 W/m/K

Dielectric Strength: 23 kV/mm

Dielectric Constant: 3.3

Volume Resistivity:  $1.8 \times 10^{15} \Omega \text{cm}$ 

Dissipation Factor: 0.007

Service Temperature: -45 - + 260 °C

Coefficient of Thermal 17 x 10<sup>-5</sup> mm/°C

Expansion:

Shelf Life @ 21°C 2: 12 months

1 At room temperature 21°C

In original unopened containers

#### **Product Features**

- Fast room temperature cure
- High thermal conductivity
- Non-corrosive
- Cure System Oxime

# Typical Applications

- Electronic component thermal dissipation
- PC motherboard heat sink mounting
- Power unit adhesive
- Adhesive sealing of components

## Adhesion

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

## Cure Speed Influence

Cure speed can be accelerated with increased humidity and heat to very rapid cure times.

Typical utilization involves dispensing in open air and after exposure to ambient humidity, a room temperature cured rubber is formed

## Limitations

Do not use product on head gaskets or fuel immersion applications.

Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly





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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 Material Safety Data Sheet.

## **Storage**

Store in a cool area out of direct sunlight.

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

## Instructions for Use

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

Apply adhesive to one substrate.

Assemble parts and allow curing.

Wipe excess adhesive from outside of joint.

#### **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 area verified on a regular basis.

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