

KSC2040

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 manual and automatic dispensing equipment.

Technical Features

Appearance:	Gray
Viscosity:	600,000 cps
Specific Gravity:	1.62
Consistency:	Thixo Paste
Working Time @RT:	8 minutes
Tack Free Time @ RT:	20 minutes
Application Rate, 90 PSI g/min	250
Cure Time:	72 hours @ RT
Durometer:	40 Shore A
Tensile Strength:	250 PSI
Elongation:	250%
Thermal Conductivity:	0.63 W/m/K
Coefficient of Thermal Expansion:	17×10^{-5}
Dielectric Strength:	23 KV/mm
Dielectric Constant:	3.3
Dissipation Factor:	0.007
Volume Resistivity:	1.8×10^{15}
Service Temperature:	-45 to 260°C

Product Features

- Fast RT cure
- High thermal conductivity
- thixotropic paste
- Excellent unprimed adhesion to plastic, metal and glass
- Non-corrosive
- Oxime Cure

Typical Applications

- PC board heat sink
- Electronic component heat transfer
- Power unit adhesive
- Adhesive sealing of components
- Part fixturing with heat dissipation

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 with thermally conductive properties is formed.

Solids

98% solids

Adhesion

Excellent unprimed adhesion to plastic, metal and glass

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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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.

Dispensing systems are available for high volume assembly applications. Please contact your Krylex representative for further advice on dispensing solutions.

Storage

Store in a cool area out of direct sunlight. Refrigeration to 5° gives optimum stability.

General Information

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

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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