



# KE-3418

Shin-Etsu Silicones of America, Inc.  
800-544-1745

## Product Description

Shin-Etsu's KE-3418 is a single part, room-temperature cure, thixotropic adhesive that cures to form a tough, durable elastomer and exhibits exceptional high temperature resistance. KE-3418 is a low odor, neutral cure, non-corrosive product that exhibits excellent, unprimed adhesion to metals, plastics, glass, and ceramics. KE-3418 is superior to other standard high temperature resistant silicone materials for its heat resistance and can withstand intermittent temperatures up to 315 Celsius.

## Product Features

- Exceptional heat resistance
- Single component
- Room-temperature cure
- Thixotropic paste
- Low odor and non-corrosive

## Typical Applications

- Sealing heating elements
- Sealing and bonding in high temperature applications

## Typical Properties

Type	Adhesive/Sealant
Cure Type	Condensation
One/Two Component	One
Color	Black
Density @ 23C (g/cm <sup>3</sup> )	1.09
Cure Conditions	7days @ 23C/50% RH
Tack Free Time (min)	5
Shore A Hardness	45
Tensile Strength (MPa)	2.00
% Elongation	200
Shear Strength (MPa)	1.40
Volume Resistivity (TΩ·m)	1
Dielectric Strength (kV/mm)	20
Dielectric Constant	3.4 @ 50Hz
Dielectric Dissipation Factor	1x10 <sup>-3</sup> @ 50Hz
Thermal Conductivity (W/m·K)	0.33
Usable Temperature Range (C)	-40 to +250

*Note: Values are not for specification purposes.*

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