



KE-3418

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 ³) | 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 ⁻³ @ 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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