



# KE-4971

Shin-Etsu Silicones of America, Inc.  
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## Product Description

Shin-Etsu's KE-4971 is a fast, UL-746E V-0 rated, IPC-CC-830 Amendment B certified, single component, room-temperature curing conformal coating that will cure to form a durable and flexible elastomer for protecting electronic components. KE-4971 is suitable for application by selective spray coating, mass coating, and flow coating making it ideal for coating circuit boards.

## Product Features

- UL-746E V-0 certified
- IPC-CC-830 Amendment B certified
- UV indicator added for easy inspection
- Fast cure
- Single component
- Room-temperature cure
- Low odor and non-corrosive
- Excellent unprimed adhesion to most substrates

## Typical Applications

- Coating circuit boards and other electronic components

## Typical Properties

Type	Conformal Coating
Cure Type	Condensation
One/Two Component	One
UL Listing	Y
Low Molecular Weight Siloxane Stripped?	Y
Color	Light Yellow Transparent
Density @ 23C (g/cm <sup>3</sup> )	0.98
Viscosity (cps)	500.00
Cure Conditions	7days @ 23C/50% RH
Tack Free Time (min)	5
Shore A Hardness	20
Tensile Strength (MPa)	0.40
% Elongation	110
Shear Strength (MPa)	0.10
Volume Resistivity (TΩ·m)	10
Dielectric Strength (kV/mm)	30
Dielectric Constant	1.9 @ 50Hz
Dielectric Dissipation Factor	6x10 <sup>-3</sup> @ 50Hz
Usable Temperature Range (C)	-40 to +180

*Note: Values are not for specification purposes.*

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