



## KE-109E A/B

### Product Description

Shin-Etsu's KE-109E A/B is an optically clear, heat cured, dual component, potting encapsulant that will cure to form a durable, flexible rubber ideal for LED diodes and ruggedizing LCD displays. KE-109E A/B exhibits excellent electrical isolation and adhesion to printed circuit board substrates, metals, plastics, glass, and ceramics.

### Product Features

- Optically Clear
- Resistant to yellowing over time
- Dual component
- 1:1 mix ratio
- Heat cured
- Self-leveling

### Typical Applications

- Encapsulating LED diodes
- Ruggedizing LCD displays

### Typical Properties

Type	Potting Encapsulant
Cure Type	Addition
One/Two Component	Two
Color	Transparent
Density @ 23C (g/cm <sup>3</sup> )	1.00
Viscosity A (cps)	1000.00
Mix Ratio by weight	100:100
Cure Conditions	1hr @ 100C
Working Time	4 Hours
Shore A Hardness	25
Tensile Strength (MPa)	1.30
% Elongation	140
Shear Strength (MPa)	0.20
Volume Resistivity (TΩ·m)	6.0
Dielectric Strength (kV/mm)	23
Dielectric Constant	2.8 @ 50Hz
Dielectric Dissipation Factor	6x10 <sup>-4</sup> @ 50Hz
Thermal Conductivity (W/m·K)	0.15
Refractive Index (23C/589nm)	1.41
Usable Temperature Range (C)	-40 to +180

*Note: Values are not for specification purposes.*

Warranty- The information and data contained herein are believed to be accurate and reliable; however it is the user's responsibility to determine suitability of use. Since Shin-Etsu Silicones, Inc. cannot know all of the uses to which its products may be put or the conditions of use, it makes no warranties concerning the fitness or suitability of its products for a particular use or purpose. You should thoroughly test any proposed use of our products and independently conclude satisfactory performance in your application. Likewise, if the manner in which our products are used requires governmental approval or clearance, you must obtain it. Shin-Etsu Silicones, Inc. warrants only that its products will meet its specifications. There is no warranty of merchantability of fitness of use, nor any other expressed or implied warranties. The user's exclusive remedy and Shin-Etsu Silicones, Inc.'s sole liability is limited to refund of the price or replacement of any product shown to be otherwise than as warranted. Shin-Etsu Silicones, Inc. will not be liable for incidental or consequential damages of any kind. Suggestions of uses should not be taken as inducements to infringe any patents.