



KE-109E A/B

Shin-Etsu Silicones of America, Inc.
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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 ³)	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 ⁻⁴ @ 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.

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