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## 109-12

## THERMALLY CONDUCTIVE, LOW STRESS EPOXY

<u>DESCRIPTION:</u> 109-12 is a one component, highly thermally conductive, low stress, low shrink potting compound and adhesive. 109-12 features <u>exceptional</u> resistance to thermal cycling. Recommended applications include potting of dissimilar materials requiring class "F+" service temperature rating. 109-12 is a more thermally conductive version of 108-50.

## **PROPERTIES:**

Color Grey

Viscosity (cps) 500,000 @ Room Temperature

60,000 @ 50°C

Dielectric Strength (volts/mil) 495

Volume Resistivity ( $\Omega$ -cm) 1 x 10<sup>14</sup>

Dielectric Constant (1 kHz) 5.3

Dielectric Factor (60 Hz) 0.018

Hardness (Shore D) 80 @ Room Temperature

35 @ 121°C

Thermal Conductivity (W/mK) 5.65

**SUGGESTED HANDLING & CURING**: Material is ready to use as received. Store at low temperature to maintain consistent flow properties. Allow material to warm up to room temperature before opening container. Cure for two (2) hours at 150°C (Note: best properties are obtained when cured at 121°C for four hours).

**STORAGE**: Shelf Life: 12 months at 0°C; or 6 weeks at 25°C; or 1 week at 40°C.

**SAFETY & HANDLING**: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.