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## 102-12

### THERMAL-CYCLE RESISTANT BLACK EPOXY COMPOUND

**DESCRIPTION:** 102-12 is a black, two component thermally conductive epoxy potting and encapsulating compound. Product is designed to release entrapped air rapidly during cure, resulting in a smooth, pinhole free surface. 102-12 is an improved, crack-resistant version of F947. Use with standard Part B for room temperature cure.

**MIXING INSTRUCTIONS:** Premix Part A in original container prior to adding curing agent. Add Part B to Part A and mix until uniform.

#### TYPICAL PROPERTIES:

Viscosity (cps)	15,000
Mix Ratio	100 / 9
Pot Life (minutes)	30
Cure Schedule	24 hr. @ 25°C or 5-15 min. @ 100°C
Hardness (Shore D)	> 85
Coef. of Therm. Exp.(in/in/°C x 10 <sup>-6</sup> )	19
Therm. Cond. (W/mK)	2.30
Cure Shrinkage (%)	0.173
Heat Distortion Temp. (°C)	95
Tensile Strength (psi)	9600
Water Absorption (%)	< 0.22
Dielectric Strength (volts/mil)	475
Volume Resistivity (Ω-cm)	1 x 10 <sup>15</sup>
Power Factor (60 HZ)	0.028
Dielectric Constant (@ 60 HZ)	4.4

**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.

*All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to results or possible infringements on patents.*

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