



Creative Materials, Inc.  
141 Middlesex Road  
Tyngsboro, MA 01879

T 978.649.4700  
F 978.649.2040

**102-11 / B187**

**CRACK RESISTANT, BLACK, FLAME-OUT, EPOXY COMPOUND**

**DESCRIPTION:** 102-11/B187 is a black, flame-out, two component, epoxy potting and encapsulating compound. Product is designed to release entrapped air rapidly during cure, resulting in a smooth, pinhole free surface. 102-11 is an improved, crack resistance version of F947.

|                        | <u>Part A</u> | <u>Part B187</u> | <u>Mixture</u> |
|------------------------|---------------|------------------|----------------|
| Appearance:            | Black         | Amber            | Black          |
| Viscosity:             | 55000 cps     | 500 cps          | 7000 cps       |
| Mix Ratio (By Weight): | 100           | 3                | ----           |
| Pot Life:              | ---           | ---              | > 4 Hrs        |

**MIXING INSTRUCTIONS:** Premix Part A in original container prior to adding curing agent. Add Part B187 to Part A and mix until uniform. **NOTE:** It is not unusual for crystallization of the B-187 to occur. Warm to 40-45°C in a water bath to return the material to its original viscosity. The crystallization of the catalyst does not affect the performance of the product in any way. To prevent re-crystallization, store the B-187 at temperatures between 35-45°C.

**CURING INSTRUCTIONS:**

|                      |                                    |
|----------------------|------------------------------------|
| Handling Properties: | 1 hr @ 80°C                        |
| Full Cure:           | 2 hrs @ 80°C or<br>30 mins @ 100°C |

**TYPICAL CURED PROPERTIES:**

|  |                      |
|--|----------------------|
| Hardness (Shore D)                                 | > 82                 |
| Coef. of Therm. Exp.(in/in/°C x 10 <sup>-6</sup> ) | 22                   |
| Therm. Cond. (W/mK)                                | 1.28                 |
| Cure Shrinkage (%)                                 | 0.189                |
| Heat Distortion Temp. (°C)                         | 105                  |
| 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                                | 4.3 @ 60 HZ          |

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

REVISION DATE: 6/17/08 REVISION: B