



141 Middlesex Road (RT. 3A) • Tyngsboro, MA 01879 • (978) 649-4700 • FAX (978) 649-2040 • www.creativematerials.com

120-46A/B187

HIGH TEMPERATURE RESISTANT, LOW SHRINKAGE, THERMAL-CYCLE RESISTANT, BLACK, EPOXY POTTING COMPOUND

DESCRIPTION: 120-46A/B187 is a black, two component, high temperature resistant, low shrinkage, thermally conductive, epoxy potting and encapsulating compound. 120-46 A/B-187 is higher temperature resistant, lower shrinkage version of 102-12A/B-187.

MIXING INSTRUCTIONS: Premix Part A in original container prior to adding curing agent. Add Part B 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 effect the performance of the product in any way. To prevent recrystallization, store the B-187 at temperatures between 35-45°C.

TYPICAL PROPERTIES:

Mix Ratio	100 / 2.5
Pot Life (hour)	> 4
Cure Schedule	1 hr. @ 80°C <u>or</u> 30 min. @ 100°C
Specific Gravity	1.7
Hardness (Shore D)	> 90
Coef. of Therm. Exp.(in/in/°C x 10 ⁻⁶)	12.6
Therm. Cond. (cal/sec/cm ² /°C/cm)	0.0065
Cure Shrinkage (%)	0.150
Heat Distortion Temp. (°C)	160
Fungus Resistance	Non-Nutrient
Tensile Strength (psi)	9870
Water Absorption (%)	< 0.20
Dielectric Strength (volts/mil)	480
Volume Resistivity (Ω-cm)	6.7 x 10 ¹⁵
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.

STORAGE: Shelf life: 12 months at 25°C, in unopened, unmixed containers.

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.

REVISION DATE: 11/20/00 REVISION: B