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**F940 / B-187**

**BLACK, FLAME-OUT, EPOXY POTTING COMPOUND**

**DESCRIPTION:** F940 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. Use B187 when long pot life and higher heat resistance is desired.

	<u>Part A</u>	<u>Part B 187</u>	<u>Mixture</u>
Appearance:	Black	Amber	Black
Viscosity (cps):	7500	500	3000
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 B to Part A and mix until uniform. Use with Part B187 when high temperature performance is desired. **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 it's 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.

**CURING INSTRUCTIONS:**

Handling Properties:	30 mins @ 80°C
Full Cure:	1 hr @ 80°C or 30 mins @ 100°C

**TYPICAL CURED PROPERTIES:**

Specific Gravity	1.51
Hardness (Shore D)	> 85
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)	115
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)	4.3

*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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