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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 B-187 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 B-187 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 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.

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 ⁻⁶)	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 ¹⁵
Power Factor (60 HZ)	0.028
Dielectric Constant (60 HZ)	4.3

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