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F-947 / B-187

BLACK, FLAME-OUT, EPOXY POTTING COMPOUND

DESCRIPTION: F-947 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. When used with curing agent B-187, cured product retains mechanical and electrical properties at operating temperatures up to 155°C.

	<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 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.

<u>CURING INSTRUCTIONS:</u>	Handling Properties:	30 mins @ 80°C
	Full Cure:	1 hr @ 80°C or 1/2 hr @ 100°C

TYPICAL CURED PROPERTIES:

Specific Gravity	1.49
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) with B-187	148
Fungus Resistance	Non-nutrient
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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