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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.

	Part A	Part B187	Mixture
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 30 mins @ 100°C

TYPICAL CURED PROPERTIES:

Hardness (Shore D)	> 82
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)	105
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	4.3 @ 60 HZ

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