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F-947

BLACK, FLAME-OUT, EPOXY POTTING COMPOUND

DESCRIPTION: F-947 is a black, flame-out, two component, epoxy potting and encapsulating compound. Product cures at room temperature and is designed to release entrapped air rapidly during cure, resulting in a smooth, pinhole free surface.

	<u>Part A</u>	<u>Part B</u>	<u>Mixture</u>
Appearance:	Black	Amber	Black
Viscosity (cps):	55,000	300	5,000
Mix Ratio (By Weight):	100	12	----
Pot Life:	---	---	1/2 Hr

MIXING INSTRUCTIONS: Premix Part A in original container prior to adding curing agent. Add Part B to Part A and mix until uniform.

CURING INSTRUCTIONS:

Handling Properties:	2-4 hrs @ 25°C
Full Cure:	24 hrs @ 25°C or 5-15 mins @ 100°C

TYPICAL CURED PROPERTIES:

Specific Gravity	1.59
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 DistortionTemp. (°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
Useful Temperature Range (°C)	-55 to +200

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