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116-04C

EXTREMELY THERMALLY CONDUCTIVE EPOXY POTTING COMPOUND

DESCRIPTION: 116-04C is a nitride filled, one component, epoxy potting and encapsulating compound. Product is designed to release entrapped air rapidly during cure, resulting in a smooth, pinhole free surface. 116-04C is a pre-catalyzed version of 116-04A/B. 116-04C is a more thermally conductive version of F940A/B.

Appearance:	Black
Viscosity (cps):	3,100
Pot Life:	2 - 4 days

HANDLING AND CURING INSTRUCTIONS: 116-04C should be stored frozen until ready to use. Allow material to reach room temperature prior to use. 116-04C is supplied ready to use.

Handling Properties:	30 min. @ 80°C
Full Cure:	2 hr. @ 80°C
	1 hr. @ 100°C

TYPICAL CURED PROPERTIES:

Specific Gravity	1.68
Hardness (Shore D)	> 85
Tensile Strength (psi)	9,600
Coef. of Thermal Exp. (ppm/°C)	22
Cure Shrinkage (%)	0.189
Heat Distortion Temp. (°C)	115
Therm. Cond. (W/m-K)	2.63
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
Water Absorption (%)	< 0.22
Useful Temperature Range (°C)	-55 to +232
Thermal Stability (°C)	Good to +280

STORAGE: Shelf Life: Up to 4 days at 25°C; or 3 months at -10°C; or 6 months at -40°C.

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.

REVISION DATE: 08/19/19 REVISION: B