



TECHNICAL DATA SHEET

TDS# 1482A

DATE: JUNE 2013

BACON INDUSTRIES

INSTRUMENT GRADE POTTING COMPOUND P-182A

Potting Compound P-182A is a highly filled high performance epoxy system featuring relatively low viscosity along with very low shrinkage stress, low coefficient of thermal expansion, high strength, high modulus of elasticity and excellent thermal shock resistance. This material is useful in applications requiring high dimensional stability and for low outgassing in end uses such as gyro motor stators, electromagnetic devices and precision electronic devices operating in extreme environments.

RECOMMENDED MIXING AND HANDLING PARAMETERS

Resin	P-182A
Activator	BA-182
Parts by weight of activator required per hundred of resin	8.0
Work life at 160°F, minutes	50
Recommended Cure, hr/°F	3/160 + 16/212

TYPICAL PROPERTIES OF CURED ADHESIVE:

Extrusion rate at 75°F and 60 psi (5cc syringe type 5SAKP1), grams/minutes	14.2
Pot Life at 160°F, minutes	35
Color	Black
Specific Gravity	1.79
Hardness, Shore D	90
Lap Shear Strength to aluminum, psi	
at 75°F	2250
at 200°F	1790
at 300°F	850
at 400°F	495
Coefficient of Linear Thermal Expansion (TMA), $10^{-6}/^{\circ}\text{F}$ from 77°F to 212°F	12.0
Glass Transition temperature (DSC), °F	271

(over)

