



# TECHNICAL DATA SHEET

TDS# 1403

DATE: JUNE 2013

## BACON INDUSTRIES

### LOW VISCOSITY, LOW TEMPERATURE CASTING SYSTEM P-103

Potting Compound P-103 is a filled undiluted epoxy system with good resistance to impact and will cure at moderate temperatures.

This system is recommended for potting devices such as connector shells from which wires may protrude directly through the epoxy. It adheres well to insulated wires.

This system is available in a number of colors besides black (see Note 1).

#### RECOMMENDED MIXING AND HANDLING PARAMETERS

Resin	C-103
Activator	BA-99
Parts by weight of activator required per hundred of adhesive	15.0
Viscosity of Activated Compound at 77°F, cp	10000
Extrusion rate through a 21 gauge x 0.5 in long needle at 60 psi, g/min	0.7
Work Life at 77°F (100 g), minutes	185
Tack-free time at 77°F (100 g), minutes	195

#### TYPICAL PROPERTIES OF CURED ADHESIVE:

Cure	7 days/80°F	2 hr/140°F
Color	Black (1)	Black (1)
Hardness, Shore D	86	90
Flexural Strength, psi	16000	17000
Flexural Modulus, 10 <sup>6</sup> psi	1.07	0.94
Tensile Strength, psi	---	8000
Linear Shrinkage upon cure, %	0.0	0.3
Density, g/cm <sup>3</sup>	1.55	1.55
Lap Shear Strength to aluminum, psi		
at -40°F	3000	2500
at 77°F	1900	3300
at 160°F	500	900
Izod impact strength, ft-lb/in of notch	---	0.44 (est)
Glass Transition temperature, °F		
by DSC	---	124 (2)
by TMA	---	122

(over)

