



## Customized Adhesive Solution

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# NGAC TC907-07

# Technical Bulletin

## Thermally Conductive and Electrically Insulating Adhesive

### **Description:**

NGAC TC907-07 is a thermally conductive and electrically insulating adhesive which can be cured at room temperature. It was designed for assembling heat sensitive components onto printed circuit boards. It is recommended for any application requiring strong adhesive bonds and excellent thermal transfer. NGAC TC907-07 passes NASA outgassing and weight loss requirements.

### **Advantages and Applications:**

NGAC TC907-07 provides strong and high impact bonds which improve heat transfer while maintaining electrical insulation. It bonds to a wide range of substrates including metals, glass and plastics. The NGAC TC907-07 has a low coefficient of thermal expansion and will provide excellent resistance to mismatched substrates and very low shrinkage. Additionally, the NGAC TC907-07 is highly resistant to chemicals.

NGAC TC907-07 features the following characteristics that enable ease of use.

### **Properties:**

	<b>Typical Value</b>
Color (Mixed)	Blue
Mixed Viscosity, cps (CP52,10rpm)	10,000
Specific Gravity	2.30
Mix Ratio by Weight (R/H)	100/9.5
Hardness Shore D	90
Operating Temperature:	-70 to +125°C
Glass Transition Temperature, °C	60
Thermal Conductivity, W/M/°K	0.96
CTE, in/in/°C	25 E-06
Lap Shear, Alum to Alum	3000 psi
Pot Life	40 minutes
NASA Outgassing	PASSES

### **Cure Schedule:**

Temperature	25°C	65°C
Time	24 hours	2-4 hours

For additional information or assistance, please call  
**978-436-9600**

All values reported above are typical values and are for reference use only. These values are not intended for use in developing specifications. Application testing under specific conditions should be performed to determine actual results and fitness for use.