

# 50-3186 NC VERY HIGH TEMPERATURE RESISTANT EPOXY ADHESIVE

## DESCRIPTION:

50-3186 NC is a two part thermally conductive epoxy adhesive. This thixotropic adhesive provides high temperature bonds to a variety of substrates. 50-3186 NC is a perfect choice for applications requiring high thermal conductivity, low thermal expansion, and high operating temperature performance.

## TYPICAL SPECIFICATIONS:

Viscosity @ 25°C, CPS	Paste
Specific Gravity, 25°C	2.4
Hardness, Shore D	90
Tensile Strength, psi, 25°C	2,700
Flexural Strength, psi	17,250
Coefficient of Thermal Expansion, °C	$28 \times 10^{-6}$
Thermal Conductivity, W/m- °K	1.38
Operating Temperature, °C	-40 to +230
Volume Resistivity, 25°C, ohm-cm	$10^{15}$

## INSTRUCTIONS FOR USE:

### HEAT CURE CATALYST 185:

1. By weight, carefully mix 17-21 parts Catalyst 185 with 100 parts 50-3186 NC resin.
2. Apply and cure according to one of the following schedules:

120°C	8 Hours
150°C	6 Hours
175°C	3 Hours
205°C	2 Hours

### CATALYST 190:

1. By weight, thoroughly mix 3-4 parts Catalyst 190 to 100 parts 50-3186 NC resin.
2. Slight warming (40°C) of the resin prior to mixing will improve pourability and air release.
3. Apply adhesive and allow to cure overnight or with heat for 2 hours at 66°C (155°F).

## IMPORTANT:

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