



50-3186

VERY HIGH TEMPERATURE RESISTANT EPOXY ADHESIVE

DESCRIPTION:

50-3186 is a two part thermally conductive epoxy adhesive. This thixotropic adhesive provides high temperature bonds to a variety of substrates. 50-3186 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 x 10 ⁻⁶
Thermal Conductivity, BTU-in/hr-ft ² /°F	9.6
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 100 parts 50-3186 with 17 parts catalyst 185.
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

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CATALYST 190:

1. By weight, thoroughly mix 3-4 parts Catalyst 190 to 100 parts 50-3186 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:

The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

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