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122-29

LOW STRESS, THERMALLY CONDUCTIVE, EPOXY ADHESIVE

DESCRIPTION: 122-29 is a 100% solids, low stress, thermally conductive, electrically insulating, one component, epoxy adhesive. This system features excellent thermal stability, outstanding chemical resistance and excellent high temperature properties. 122-29 is designed for bonding substrates that have dissimilar coefficients of thermal expansion. Applications include, but are not limited to, die attachment, printed circuit board fabrication, advanced material composites, sealing and high performance coatings. 122-29 is a higher viscosity version of CMI 121-08, which also provides greater thermal conductivity.

PROPERTIES:

Viscosity (cps.)	150,000
Thermal. Conductivity (W/mK)	0.35
Glass Transition Temp. (°C)	>140
Lap Shear Strength (psi)	2100
Dielectric Strength (volts/mil)	425
Volume Resistivity (Ω-cm)	1×10^{16}
Dielectric Constant (100Hz)	4.0

SUGGESTED HANDLING AND CURING: Material is ready to use as received. Store frozen to maintain consistent flow properties. Allow material to warm up to room temperature before opening container. Prior to using, mix container well to re-suspend filler. Cure for 30 minutes at 155°C or for 20 minutes at 175°C.

Note: It is not unusual for crystallization of the 122-29 to occur. Warm to 40-45°C in a water bath to return the material to its original viscosity. The crystallization does not affect the performance of the product in any way.

STORAGE: Shelf Life: 1 month at 25°C or 6 months at -10°C.

SAFETY AND HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to results or possible infringements on patents.

REVISION DATE: 12/11/07 REVISION: C