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124-21

SCREEN-PRINTABLE, B-STAGEABLE, ANISOTROPIC CONDUCTIVE, EPOXY ADHESIVE

DESCRIPTION: 124-21 is a screen-printable, B-Stageable, one part epoxy anisotropic conductive adhesive. This system features excellent thermal stability, outstanding chemical resistance and excellent high temperature properties. Applications include, but are not limited to, conductive splicing of ribbon cables, PTF circuits, and electrical attachment of surface mounted devices. This product is useful in application where shorts between closely spaced contacts is a concern.

PROPERTIES:

| | |
|-----------------------------|----------------------|
| Viscosity (cps): | 8,000 – 10,000 |
| Glass Transition Temp. (°C) | 105 |
| Volume Resistivity (Ω-cm) | |
| (X, Y Axis) | 1 x 10 ¹² |
| (Z Axis) | 0.0001 |
| Hydrolytic Stability | Excellent |
| Peel Strength (lbs./inch) | ~12 |

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.

STORAGE: Shelf Life -2 months at 25°C or 6 months at -10°C.

B-STAGE PROCEDURE: Apply adhesive to substrate. Next apply heat to advance the curing to the non-tacky stage (when cooled to room temperature). A temperature of 125°C for 2-3 minutes is required (B-Stage time is mass related)). User is encouraged to experiment for optimum drying time at a given temperature.

BONDING PROCEDURE: Refer to above for storage information. To use, carefully align parts to be bonded, apply uniform pressure to maintain location. Cure for 1.5-2 hours at 135°C. May also be cured for one hour at 150°C, or 45 minutes @ 165°C, or 30 minutes @ 175°C. For hot stamping application cure under pressure for 10 to 20 seconds 175 to 225°C. End user should experiment with temperatures and time for curing.

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 suitability in particular application or possible infringements on patents.

REVISION DATE: 3/3/06 REVISION: A