CREATIVEMATERIALS

www.creativematerials.com

ISO 9001 CERTIFIED

Creative Materials, Inc.
141 Middlesex Road
Tyngsboro, MA 01879

T 978.649.4700
F 978.649.2040

124-30

ELECTRICALLY CONDUCTIVE, B-STAGEABLE, EPOXY ADHESIVE

DESCRIPTION: 124-30 is a syringe dispensible, B-stageable, electrically conductive, epoxy adhesive. This product features excellent adhesion to a variety of metallic contact pad compositions as well as other substrates. Unlike conventional conductive materials, this product is very resistant to solvents, heat, and thermo-cycling. Applications for 124-30 include, but are not limited to, electrical attachment of surface mounted devices and bonding of flex circuits to PC boards and electroluminescent panels. This system features excellent thermal stability.

PROPERTIES:

Viscosity (cps)		65,000
Filler		Silver
Glass Trans. Temp. (°C)		105
Volume Resistivity (ohm-cm)		0.001
Solderable		No
Useful Temperature Range (°C)		-55 to 200
Thermal Stability (°C)		Good to 300
Coefficient of Thermal Expansion (in/in°C)	Below Tg:	29×10^{-6}
	Above Tg:	13×10^{-5}

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.

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 dispensing. As an adhesive, apply the 124-30 to one or both parts, then mate the parts and cure for one (1) hour at 150°C, or 30 minutes at 175°C, while maintaining pressure. The amount of pressure required should be experimentally determined based on the curing temperature and geometry of the components. Typically a pressure of 100 psi, or greater is required. Allow to cool to room temperature before removing pressure.

STORAGE: Shelf Life, 2 months at 25°C, or 12 months at –10°C.
It is highly recommended that product stored in syringes be kept frozen to minimize settling of filler.

REVISION DATE: 11/16/06 REVISION: *A*