

Creative Materials, Inc.  
12 Willow Road  
Ayer, MA 01432T 978.391.4700  
F 978.391.4705**122-01UT****HIGH-TEMPERATURE DIELECTRIC INK AND ADHESIVE**

**DESCRIPTION:** 122-01UT is a single component ink and adhesive suitable for application by screen printing or syringe dispensing. This product features a unique high continuous operation temperature and very high glass transition temperature making it especially well-suited for extreme conditions found in furnace, heater, and aerospace applications. 122-01UT is a version of 122-01(P) with improved adhesion to a wide range of substrates and features improved flexibility over typical high temperature materials.

**TYPICAL PROPERTIES:**

Viscosity (cps)	25,000 – 30,000
Color	Tan
Volume Resistivity ( $\Omega$ -cm, min.)	$1 \times 10^{15}$
Dielectric Constant	4
Dielectric Strength (V/mil)	> 4,000
Glass Transition Temp. ( $^{\circ}$ C)	> 320
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to +330
Thermal Stability ( $^{\circ}$ C)	Good to +410

**SUGGESTED HANDLING:** 122-01UT is ready to use as supplied but can be thinned down with CMI 102-03 for printing optimization.

**CURING AND BONDING:** To use as an adhesive, apply b-staged adhesive to one part, carefully align parts to be bonded, apply uniform pressure to maintain location. Cure 60 minutes at 150 $^{\circ}$ C followed by either 60 minutes at 250 $^{\circ}$ C or 2 hours at 200 $^{\circ}$ C. For better adhesion of the b-staged film to the first part, it is suggested to warm the part to 80 $^{\circ}$ C. Cure times given are mass related, timing should start after adhesive and substrates reach curing temperature. For maximum chemical resistance a final cure temperature of 180 $^{\circ}$ C is required.

End user is advised to experimentally determine temperature and time best suited for individual applications.

For more information on B-staging see our [B-staging guidelines](#).

**STORAGE:** Shelf life up to 1 month at 25 $^{\circ}$ C; or 3 months at 5 $^{\circ}$ C; or 6 months at -10 $^{\circ}$ C; or 12 months at -40 $^{\circ}$ C. For extended storage -40 $^{\circ}$ C is recommended. For syringe storage see [syringe handling guidelines](#) for recommendations on storage and maintaining homogeneity of material over long-term storage.

**SAFETY & 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.*

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