

Creative Materials, Inc.  
12 Willow Road  
Ayer, MA 01432T 978.391.4700  
F 978.391.4705**128-21C****JET-DISPENSABLE THERMALLY CONDUCTIVE EPOXY ADHESIVE**

**DESCRIPTION:** 128-21C is a jet or syringe dispensable, thermally conductive, electrically insulating, pre-catalyzed epoxy adhesive. This system features excellent thermal stability, outstanding chemical resistance and excellent high temperature properties. Unlike conventional thermally conductive epoxy adhesives, 128-21C is flexible and can absorb stress when bonding mismatched CTE substrates. Applications include die attachment, printed circuit board fabrication, advanced material composites, LED attachment and heat sink bonding. 128-21C is a version of 125-31C optimized for jet dispensing.

**PROPERTIES:**

Viscosity (cps, 10 s <sup>-1</sup> )	135,000
Thixotropic Index (1/10 s <sup>-1</sup> )	> 2.5
Filler	Nitride blend
Volume Resistivity, min. (Ω-cm)	1 X 10 <sup>16</sup>
Useful Temperature Range (°C)	-55 to +230
Thermal Stability (°C)	Good to +325
Lap Shear Strength (psi)	1,800
Glass Transition Temperature, Tg (°C, TMA)	92
Coefficient. Of Thermal Expansion, below Tg (ppm/°C)	61
Coefficient. Of Thermal Expansion, above Tg (ppm/°C)	209
Thermal Conductivity (W/m-K)	3.1

**SUGGESTED HANDLING AND CURING INSTRUCTIONS:** Material is ready to use as received. If frozen remove product from freezer and allow material to warm to room temperature before opening container. Good results are obtained when the product is cured at one of the following schedules but longer times and higher temperatures will always provide improved properties.

60 min.	@	100°C or
15 min.	@	120°C or
5 min.	@	150°C or
45 sec.	@	175°C

**STORAGE:** Shelf life: 4 days at 25°C; or 3 months at -10°C; or 6 months at -40°C.

**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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