

121-06

THERMAL CYCLE RESISTANT, ELECTRICALLY CONDUCTIVE ADHESIVE

DESCRIPTION: 121-06 is a single component, silver filled, electrically conductive adhesive suitable for application by syringe dispensing. This product is designed for assembling PTC Pills as well as electrical and electronic components. The resulting bond exhibits excellent thermal cycling resistance, electrical and thermal conductivity.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Silver
Percent Silver, cured	> 79
Volume Resistivity, max. (Ω -cm)	0.0005
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +200
Thermal Stability ($^{\circ}$ C)	Good to 300
Peel Strength (pli)	10.0
Thermal Conductivity (W/mK)	6.74

SUGGESTED HANDLING & CURING: 121-06 is ready to use as supplied. Apply adhesive to surface to be bonded by hand and/or automatic method and assemble. Apply slight pressure to assure good mating of surfaces and formation of fillet. Best properties for most applications result when cured for 15 minutes at 100 $^{\circ}$ C, followed by curing 1 hour at 180 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 100 $^{\circ}$ C to 175 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 3 months at 25 $^{\circ}$ C; or 6 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ 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.