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**127-29**

**OPTOMEK PRINTABLE, ELECTRICALLY CONDUCTIVE, EPOXY, DIE ATTACH ADHESIVE**

**DESCRIPTION:** 127-29 is a single component, silver filled, Optomek printable, electrically conductive, epoxy adhesive. 127-29 provides for fine pitch resolution, when aerosol jet dispensed. This system features excellent thermal stability, outstanding chemical resistance and excellent high temperature properties. Applications include adhesives, die attachment, printed circuit board fabrication, advanced material composites, sealing and high performance coatings. 127-29 provides excellent adhesion to gold plated substrates, as well as tin/lead solder terminated components.

**PROPERTIES:**

Viscosity (cps)	250
Thixotropic Index	>5.0
Filler	Silver
Percent Silver, cured	88
Volume Resistivity, max. (Ω-cm)	0.0001
Useful Temperature Range (°C)	-55 to +230
Thermal Stability (°C)	Good to 325
Lap Shear Strength (psi)	> 2,100
Die Shear Strength (psi)	> 4,500
Glass Transition Temperature, Tg (°C)	98.7
Coef. Of Therm. Exp. (in/in/°C)	
- Below Tg	38.9 x 10 <sup>-6</sup>
- Above Tg	13.9 x 10 <sup>-5</sup>

**IONIC CONTENT:**

Chloride	<10 ppm.
Sodium	<10 ppm.
Potassium	<10 ppm.

(Typical properties are not intended to be used as specification limits.)

**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 to resuspend filler. Cure for 10 minutes at 175°C or for 30 minutes at 150°C.

**STORAGE:** Shelf Life: <48 hours at 25°C or 6 months at -40°C.

**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 results or possible infringements on patents.*

**REVISION DATE: 2/23/17 REVISION: A**