CREATIVEMATERIALS

Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432

www.creativematerials.com

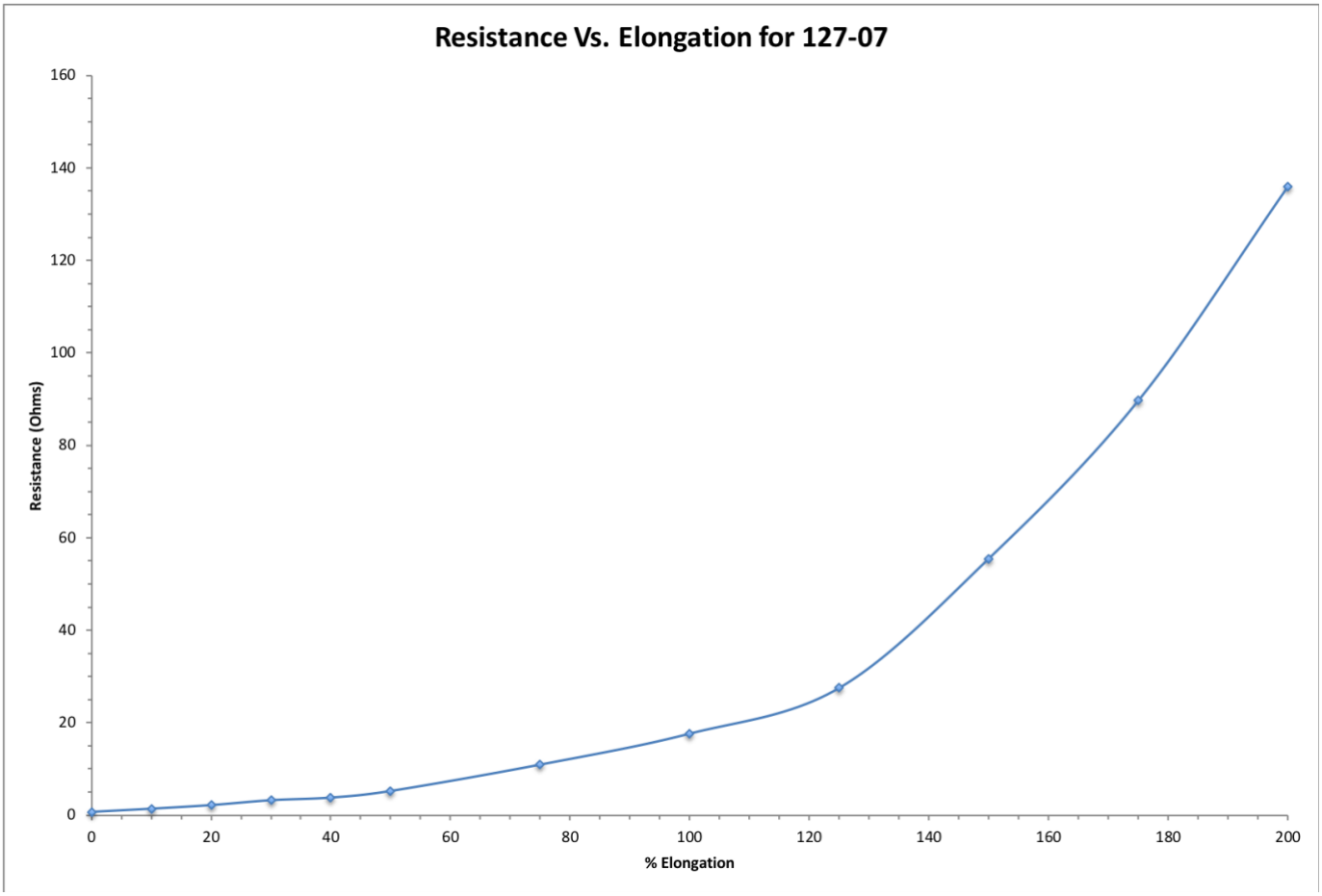
ISO 9001 CERTIFIED
ISO 14001 CERTIFIED

T 978.391.4700
F 978.391.4705

127-07

EXTREMELY CONDUCTIVE ELASTOMERIC INK

DESCRIPTION: 127-07 is an ink/coating with high electrical conductivity for application by screen-printing, dipping and syringe dispensing. The product features excellent adhesion to Kapton, Mylar, and a variety of other substrates**. The superior conductivity of this product allows the end user to print narrower and/or longer circuit trace lines or thinner coatings without compromising overall maximum ohm values.** The proper use of this feature can result in a significant cost saving or enhanced performance. This product is more flexible and elastomeric than traditional conductive inks. Some applications for 127-07 include, but are not limited to, RFID antennae, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, and membrane switches and it has shown to have conductivity at up to 200% elongation.



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 suitability in a particular application or possible infringements on patents.

REVISION DATE: 04/11/19 REVISION: C

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TYPICAL PROPERTIES:

Viscosity (cps)	18,000 – 25,000
Filler	Silver
Percent Silver (cured)	> 84
Volume Resistance, max. (Ω-cm)	0.00002
Sheet Resistivity (Ω/square/mil)	0.008
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +120

SUGGESTED HANDLING & CURING: 127-07 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI thinner 113-12. Prior to use, be certain to mix well to re-suspend silver. **Best properties** for most applications result when cured for 3 to 5 minutes at 175°C. Excellent properties are also obtained on a variety of substrates by curing at temperatures ranging from 50°C to 180°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 6 months at 25°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.

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