CREATIVEMATERIALS

www.creativematerials.com

ISO 9001 CERTIFIED

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

T 978.391.4700
F 978.391.4705

123-27

ELECTRICALLY CONDUCTIVE SILICONE INK

DESCRIPTION: 123-27 is an electrically conductive silicone ink and coating, suitable for dip coating. This product features adhesion to silicone and a variety of other substrates. Unlike conventional conductive materials, this product is very flexible and tactile. Some applications for 123-27 include, but are not limited to, static dissipation, and conductive coatings on silicone materials. 123-27 is useful for application requiring flexibility at very low temperatures. Product is very useful as a coating on silicone substrates. 123-27 is a higher viscosity version of 118-40

TYPICAL CURED PROPERTIES:

Consistency	Liquid
Filler	Carbon
Crease Resistance	Excellent
Volume Resistance (Ω-cm)	0.4
Sheet Resistivity (Ω/sq./mil)	150
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 200
Thermal Stability (°C)	Good to 325

SUGGESTED HANDLING & CURING: 123-27 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of xylene. Prior to using, be certain to re suspend filler. Best properties, for most applications, result when allowed to dry at room temperature followed by curing for 5-10 min. at 175°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50°C to 150°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 6 months at -10°C, 2 months at 21ºC

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.

REVISION DATE: 1/18/05 REVISION: B