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Laboratory Data Sheet

Product 3882

Electronics Product, October 1998

PRODUCT DESCRIPTION

LOCTITE® Product 3882 is as a room temperature or heat curable, silver filled adhesive designed for electronic interconnect applications that require high flexibility. It may be dispensed via syringe or stencil/screen print applied. This material is both electrically and thermally conductive. It develops strong, durable bonds between many different substrates including metals, ceramics, glass, laminates, and molded plastics. Typical applications include assembly and repair of flexible circuits, bonding of components, and electronic shielding.

PROPERTIES OF UNCURED MATERIAL

	Typical Value
Chemical Type	Epoxy
Appearance	Silver Paste
Specific Gravity	2.9
Viscosity	Thick paste
Mix ratio (if mixed on-site) Resin: Hardener	100:115
Working Life (once mixed or thawed) Hours	2-4

PROPERTIES OF CURED MATERIAL

Lap Shear Strength – Al to Al, ASTM D 1002, psi	>1000
CTE, ASTM E 831, (per°C):	N/A – flexible
Tg, ASTM D 3418-82	-10°C
Thermal Conductivity	>1.5 W/m°C
Volume Resistivity, Mil 883D @25°C, Ohm-cm	<0.001
Extractable Ionic Content (ppm): Mil 883E	
Fluorine(F)	<6.0
Chloride(Cl)	>100*
Potassium(K)	17.1
Sodium(Na)	3.2

* this product not recommended for fine pitch or die attach applications.

RECOMMENDED CURING CONDITIONS

24 hours at 23°C
 2 hours at 65°C
 1 hour at 110°C

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

STORAGE AND SHELF LIFE

If supplied as separate containers of parts A and B, store at room temp (23°C) for up to 6 months. If supplied pre-mixed and frozen, store at -40°C for up to 1 year. Shelf life will vary with specialty packages.

Note

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