ELECTRICALLY CONDUCTIVE GLUE (SHIELDOKIT) 3980

Electrically conductive glue / Electrically conductive adhesive

Shieldokit creates an electrically and thermally conductive connection between components (electrically conductive adhesive). One of the applications is EMI shielding.
The conductive glue cures at room temperature and has excellent filling properties. The viscosity of conductive glue is comparable to peanut butter, so it can be used to fill in uneven surfaces.

The product consists of a two-component epoxy-based glue containing 65% silver. It is a paste which can be applied to metals (copper, aluminum, stainless steel, brass, etc.), ceramics and most plastics.

TECHNICAL APPLICATION

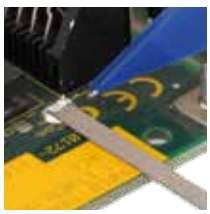
Shieldokit is designed to connect components at temperatures between 20 and 80°C.

STRUCTURE

Shieldokit is a solvent-free, silver pigmented two components conductive adhesive, based on epoxy resin.

SPECIAL CHARACTERISTICS

Shildokit shapes a strong connection with excellent conductivity. The two components base offers a hardening at room temperature and the adhesive is thereby suitable to connect temperature-sensitive components.



APPLICATION

Shieldokit is designed to connect parts at temperatures between 20 °C and 80 °C. The adhesive can be applied with a dispenser or by screen printing. Tools have to be cleaned immediately after use.

USED FOR:

- Gluing components that cannot be soldered
- Connections that require excellent electrical conductivity
- Connections that have to be thermally conductive
- Repairing non-solderable components
- Gluing objects to a plastic enclosure where an electrically conductive linkage is needed
- Restoration of flat cables, SMD components, etc.

CURE INSTRUCTIONS

The product will cure at room temperature for 24 hours, or cure the adhesive in a oven at one of these time/temperature options: 15 min @ 65 ˚C, 7 min @ 125 ˚C

Technical Datasheet

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CURED PROPERTIES

Resistivity	7.0 x 10-3 Ω·cm
Hardness	73 D
Tensile Strength	13 N/mm2
Compressive Strength	39 N/mm2
Lap Shear (stainless steel) (aluminum)	3.8 N/mm2 5.5 N/mm2
Water Absorption	0.04 %
Outgassing @ 125 ˚C for 24 h	6.3 %
Glass Transition Temperature (Tg)	50 ˚C
CTE Prior Tg	54 ppm/˚C
CTE After Tg	169 ppm/˚C
Thermal Conductivity @ 25 ˚C	1.4 W/(m·K)
Service Temperature Range	-55–150 ˚C

USAGE PARAMETERS

Working Time	10 min
Service Cure	5 h @ 22 ˚C
Mix Ratio by Volume	1:1
Mix Ratio by Weight	1.04:1

UNCURED PROPERTIES

Mixed Density	2.29 g/mL
Shelf Life	2 years after production date
Viscosity @ 25 ˚C	(A) 1.000 Pa·s (B) 15.000 Pa·s

ORDER EXAMPLE

Series

3980

Technical Datasheet

Jacobus Lipsweg 124, NL-3316 BP
Dordrecht, The Netherlands

Ph: +31(0)78 - 204 90 00
Fax: +31(0)78 - 204 90 08

info@hollandshielding.com
hollandshielding.com