

Z-904

Polymer Thick Film

Description

Z-904 conducts electricity on the Z-axis direction through the thickness, and not along width or length of the printed ink. Ideal for screen printing over conductive ink tail pins on membrane switches to provide protection for the silver ink when ZIF or crimp type metal connectors are attached, while still maintaining electrical conductivity between the metal connector and the silver ink pin.

Key Features

- UV curable screen printable ink
- Exhibits outstanding adhesion
- Excellent strength, toughness, outstanding flexibility, inherent moisture resistance, and low odor
- Withstands extreme thermal shock cycling, from +150°C to well below -50°C, and maintains its electrical integrity over a wide temperature and frequency range



This picture does not show the packaging of Z-904 and is solely intended for illustration purposes. The products are available in different packaging configurations and may change over time. Please refer to the latest safety data sheets for safety-relevant pictograms

Typical Properties

Viscosity	1.5 - 3 kcps SC4-14 @SR 20, @ 25°C
Color	Blue
95% Max Particle Size	>25 µm

Recommended Processing Guide

Printing Parameters	Monofilament polyester (157 to 230 mesh) or stainless steel (165-325 mesh) is recommended
Drying Temperature	Medium pressure mercury bulb (non doped) or equivalent set at 300 watts with a minimum of 600 mj. energy output
Film Thickness	8-12 µm
Recommended Thinner	Do not thin

Z-904

Polymer Thick Film

Warranty

6 months

Storage

Store at ambient conditions away from direct light. Material should be thoroughly mixed or rolled on a jar roller at a slow speed for 1 hour prior to use

Americas

Phone +1 610 825 6050

electronics.americas@heraeus.com

Asia Pacific

Phone +65 6571 7649

electronics.apac@heraeus.com

China

Phone +86 53 5815 9601

electronics.china@heraeus.com

Europe, Middle East and Africa

Phone +49 6181 35 4370

electronics.emea@heraeus.com

The descriptions and engineering data shown here have been compiled by Heraeus using commonly accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for particular application. The Heraeus logo and Heraeus, figurative mark are trademarks or registered trademarks of Heraeus Holding GmbH or its affiliates. All rights reserved.

All changes are based on information displayed using the template `data_sheet/HET/TFM/print_data_sheet.html.twig`.
Version (last updated) 26 Feb 2026