

UV-939

Polymer Thick Film

Description

UV-939 is a ultraviolet light-cured, transparent dielectric that glows when exposed to black light for visual validation of coverage. It can be used for insulating dielectric layers and cross overs. With its high crease resistance and flexibility, UV-939 is an excellent choice for your insulating layer needs. Capable of targeted area printing or large flood coating areas of your circuit, this material has minimal shrinkage resulting in flat devices post processing.

Key Features

- Glows under black light
- 5B (ASTM d3359) adhesion to common hybrid electronics substrates
- Maintains its electrical integrity over wide temperature and frequency ranges
- High scuff resistance with excellent flexibility and crease resistance
Excellent moisture resistance
- Withstands extreme thermal shock cycling, from +150°C to well below -50°C



This picture does not show the packaging of UV-939 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

Conductivity	5 X 10 ¹⁵ Ω/sq
Viscosity	1.5-2.5 kcps. Brookfield SC4-14 spindle @ SR 30, 25°C
Color	Clear
95% Max Particle Size	<10 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
Paste Compatibility	Compatible with all PriElex products

UV-939

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