

## IP9039H

### Dielectric / Glaze

#### Description

IP9039H is a black dielectric, particularly developed for use as an acid-resistant overglaze on chip and standard resistors.

#### Key Features

- It can withstand plating solutions, e.g Ni b baths with pH – values of 4 – 5 and Pb/Sn baths with pH – values of < 1 Also resistant to mildly alkaline solutions



*This picture does not show the packaging of IP9039H 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	25 – 45 Pas (25 °C, D = 100/s)
Solids	
Blendable	
Coverage	c. 111 cm <sup>2</sup> /g (FFT: 15 µm)
Color	Black

#### Recommended Processing Guide

Printing Parameters	Print through a 200 – 325 mesh stainless steel screen.
Printing Speed	Up to 20 cm/s
Leveling	
Drying Temperature	Dry at 150 °C for 10 – 20 minutes.
Process Temperature (TDS)	Fire at 580 – 620 °C (peak) for 2 minutes, and with a total firing cycle time of c. 25 – 30 minutes
Film Thickness	15 – 19 µm
Recommended Thinner	HVS 100
Paste Compatibility	Overglazes IP 9029H (green transparent) IP 9049H (white) IP 9059 (colourless transparent) Conductors C 1075S C 1075S (LPA 409-021) C 1076SD C 1076SD (LPA 609-022) Others on request Resistors R 8900 Series R 8900 (WP 09-XY) Series R 8900D Series

### IP9039H

Dielectric / Glaze

---

#### Warranty

6 months

#### Storage

store in a dry, cool (2 – 23 °C) and dark place with container tightly shut

#### Americas

Phone +1 610 825 6050

[electronics.americas@heraeus.com](mailto:electronics.americas@heraeus.com)

#### Asia Pacific

Phone +65 6571 7649

[electronics.apac@heraeus.com](mailto:electronics.apac@heraeus.com)

#### China

Phone +86 53 5815 9601

[electronics.china@heraeus.com](mailto:electronics.china@heraeus.com)

#### Europe, Middle East and Africa

Phone +49 6181 35 4370

[electronics.emea@heraeus.com](mailto: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

Heraeus Electronics GmbH & Co.KG, 63450 Hanau, Germany  
Web: [www.heraeus-electronics.com](http://www.heraeus-electronics.com)