Heraeus

File Name: TDS\_Dielectrics\_IP9117

Document Number: HET33064-0921-2

## **IP9117**

# Dielectric / Glaze

### **Description**

IP9117 is a permanent blue 850 °C firing dielectric composition, displaying the following benefits:

#### **Key Features**

- Expansion coefficient is closely matched with that of alumina, to provide for minimal substrate bowing
- Extremely dense, hermetic fired film allows for excellent electrical performance at a fired thickness of ≥ 40 um
- Excellent solderability and adhesion of Ag
- Ag/Pd, Ag/Pt, Au and Au/Pt conductors on top of dielectric
- Excellent wire bondability of gold conductors on top of dielectric
- Resistors can be processed on top of dielectric
- Absence of the "Battery Effect"3



This picture does not show the packaging of IP9117 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	30-50 Pas (25 °C, D = 75/s)
Coverage	c. 70 cm2/g (40 um FFT)
Metal	None
Recommended Processing Guide	
Recommended	Processing Guide
Process Temperature (TDS)	All layers of the interconnected structure should be fired separately. Fire in air, with a 30-60 minute cycle to a peak temperature of 850 °C.

Heraeus

## **IP9117**

Dielectric / Glaze

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.