

Dielectrics

IP 9025 ST

Resistor Overglaze

Description

IP 9025 ST resistor overglaze is screen printable and fires to a glossy, green color, for optimum laser-trim characteristics. It is fully compatible with the R 8900 and R 8900 D resistor Series, and enhances the stability of such resistors.

Key Benefits

- Hermetic protection
- Compressively expansion-matched, for a high resistor stability.
- Allows for a reliable use of high silver internal interconnects.
- High-speed printing may be realized.
- Free of cadmium and nickel
- REACH² and RoHS³ compliant

Processing

1. Spatulate well prior to processing. When stored in a fridge: the paste should have acquired room temperature before being opened, to avoid condensation.
2. Print through a 200 – 325 mesh stainless steel screen (total thickness : 50 – 110 µm)
3. Let the print settle at room temperature for 5 – 10 minutes.
4. Dry at 150°C for 10 – 20 minutes.
5. Fire at 490 – 525°C (peak) for 2 – 3 minutes (500 – 510°C is optimal), and with a total firing cycle time of c. 30 minutes.

Thinner

HVS 100

Typical Properties (Paste)

Form:	Thixotropic paste
Viscosity:	25 – 45 Pas (25°C, D = 100 s ⁻¹)
Coverage:	c. 120 cm ² / g (FFT ⁴ : 10 µm)
Shelf Life:	6 months from date of shipment with correct storage (in a dry, cool (2 to 23°C) and dark place with container tightly shut)

Typical Properties (Fired)¹

Color:	Green transparent
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Compatibility

Resistors:	R 8900 Series R 8900 D Series
Dielectrics:	IP 9117 Series
Conductors:	C 1075 Series C 1076 SD C 1200 Series C 2000 Series

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- 1 Typical property based on laboratory test methods. For optimum results all materials should be fired in a profiled furnace supplied with dried, hydrocarbon and other contaminant free air (PP-1).
- 2 REACH compliant according to the Annex XIV (Feb. 17, 2011) of Commission Regulation (EU) No 143/2011 to Regulation (EC) No 1907/2006 of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency; we define a material as REACH compliant, as long as substances used are not recorded in the Annex XIV.
- 3 RoHS compliant according to the Directives (European Union) No 2011/65/EC of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions No. 7. c. l. of the EU Directive e.g. related to Pb)
- 4 FFT: Fired Film Thickness

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 a particular application.

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