

Dielectrics

IP9036Black



Pb and Cd Free Black Passivation Glass

Description:

IP9036Black is a lead, cadmium and nickel free black passivation glass which fires at 610°C to a smooth, pinhole-free film. IP9036Black is resistant to plating solutions and is designed for use in the Heraeus chip resistor system. IP9036Black is designed to be pinhole free after firing, even when printed into laser trim kerfs.

● Key Benefits:

- Pb and Cd free
- Resistant to Ni and Pb/Sn plating solutions
- Minimizes resistance shift
- Pinhole free
- Single coat application

● Typical Properties:

Viscosity:

80-140 kcps;
Brookfield HBT, SC4-14 spindle
and 6R utility cup @ 10 rpm, 25°C.

Solids:

76.5 ±1.5%

● Recommended Processing Guidelines:

Printing:

325 mesh screen
0.5 mil emulsion
1.1 mil wire
Double wet pass recommended for filling laser trim kerfs

Drying:

Dry at 150°C for 10 minutes

Firing:

600 - 620°C peak temperature
Dwell time of 1-2 minutes

Thickness:

Dried: 22 microns
Fired: 12 microns

Thinner:

Heraeus RV-372 (Terpineol)

Warranty:

Material guaranteed to meet specifications
for 6 months from date of shipment.

Storage:

Store in a dry location at 5°C-25°C.
DO NOT REFRIGERATE.
Allow paste to come to room temperature
prior to opening.
Spatulate well before using.

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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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