

Dielectric IP9038A



Pb and Cd Free Resistor Overglaze

Description:

IP9038A is a lead, cadmium and nickel free green overglaze designed for printing and firing over thick film resistors. IP9038A provides improved trimmed resistor stability and environmental protection. IP9038A has been proven to withstand plating solutions. IP9038A has excellent process insensitivity and is compatible with all Heraeus air-fireable resistor series.

● Key Benefits:

- Minimizes resistance shift on refire
- Pinhole free
- Single coat application
- Resistant to plating solutions
- RoHS compliant*
- REACH compliant**

● Typical Properties:

Coverage:

160 cm²/g @ 10 microns FFT

Viscosity:

140 - 180 Kcps
Brookfield HBT, SC4-14 spindle
and 6R utility cup @ 10 rpm, 25°C.

Solids:

75 ± 2%

● Recommended Processing Guidelines:

Printing:

280 - 325 mesh stainless steel screen
0.5 mil emulsion
1.1 mil wire

Drying:

Allow to level for 10 minutes before drying
Dry at 150°C for 10 minutes

Firing:

500°C (6-8 minutes) Dwell time
520°C (4-6 minutes) Dwell time

Thickness:

Dried: 18-22 microns
Fired: 10-12 microns

Thinner:

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, as settling can occur during
storage.

YY0811.3

*RoHS Statement

Compliant according to Directives (European Union) No 2011/65/EC of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions No. 5 and 7 of the EU Directive e.g. related to Pb bounded in a glass matrix as oxide PbO)

**REACH Statement

Compliant according to the Commission Regulation (EU) No 143/2011 of Feb. 17, 2011 amending Annex XIV 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.

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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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