

Resinates

GPP PPH 100A H



Squeegee Platinum Resinate / DPIS*

* Development Product Information Sheet

Description

GPP PPH100A H is a thin film conductor paste for tampon printing on boro-silicate-glass. It contains gold and platinum sulforesinate and a small amount of non-precious metals in form of soluble organo-metallic compounds.

Key Benefits

- After firing a conducting precious metal film is obtained which offers excellent adhesion between metal film and substrate.
- Free of lead, cadmium and nickel
- Free of phthalate
- REACH³ and RoHS⁴ compliant

Processing

1. Spatulate well prior to processing. When stored in a refrigerator allow paste to come to room temperature prior to opening, to avoid condensation.
2. Tampon print at room temperature out of a printing block with 50 µm depth.
3. After printing the paste should be dried at 80 to 125 °C for 10 to 20 minutes.
4. The firing cycle is 30 to 60 minutes with 670 to 730 °C peak temperature and 8 to 10 minutes dwell time.

Thinner

HVS 100
Lavender Oil

Typical Properties (Paste)

Form:	Thixotropic paste
Viscosity:	110 - 130 Pas (25 °C, D = 2.5 rpm)
Metal Content:	12.5 ± 0.6 %
Printing Speed:	Not applicable
Coverage: (325 mesh screen)	Approx. 400 cm ² / g (FFT @ 0.4 µm)
Shelf life:	6 months from date of shipment with correct storage (in a dry, cool (5 - 25 °C) and dark place with container tightly shut)

Typical Properties (Fired)¹

Fired Film Thickness ² : (FFT)	0.1 - 0.5 µm
Color:	Reddish gold

Resinates

GPP PPH 100A H



Squeegee Platinum Resinate / DPIS*

* Development Product Information Sheet

- 1 Typical properties 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 Measured on alumina 96% after printing with a 325 mesh steel screen; thickness of screen and emulsion combined was c. 15 µm, and the resultant printed track was 500 µm wide.
- 3 REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments: the material does not contain any substance listed in Annex XIV.
- 4 RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

** See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request.

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.

Heraeus Deutschland
GmbH & Co. KG
Heraeus Performance Products
BL Precious Colours
Heraeusstr. 12 – 14
63450 Hanau, Germany
E-Mail: preciouscolours@heraeus.com