

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Conductors

Product Name: C 4350



Low Firing Gold

Description

C 4350 is a Au conductor incorporating a low melting frit. This gold is suitable for low firing applications such as glass displays and soda lime substrate structures. C 4350 is supplied in a screen printing viscosity.

Key Benefits

- REACH¹ and ROHS² compliant
- Low firing temperature
- High conductivity
- Screen printable

Typical Properties

Resistivity

≤ 6.0 mΩ/□
at 12 μm fired film thickness

Viscosity

230 – 270 Kcps Brookfield HBT
#14 spindle at 10 rpm, 25 °C

Solids

90.0 ± 1.0 %

Coverage

55 cm²/g at 12 μm fired film thickness

FOG

≤ 15 μm at 4th scratch

Recommended Processing Guidelines

Printing

325 mesh stainless steel screen
0.5 mil emulsion

Drying

150 °C for 5 – 10 minutes

Firing

525 – 650 °C peak temperature
Dwell time of 5 – 6 minutes at peak

Thickness

Fired 10 – 14 μm

Thinner

RV-372

Fine Line Resolution

< 7 mils (175 μm)

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 may occur during storage.

Technical Data Sheet



Low Firing Gold

Legend:

1) 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.

2) 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

Heraeus Electronics
Heraeus Deutschland GmbH & Co. KG
Heraeusstraße 12 – 14
63450 Hanau, Germany
www.heraeus-electronics.com

Americas
Phone +1 610 825 6050
electronics.americas@heraeus.com

China
Phone +86 21 3357 5457
electronics.china@heraeus.com

Asia Pacific
Phone +65 6571 7677
electronics.apac@heraeus.com

Europe, Middle East and Africa
Phone +49 6181 35 3069, +49 6181 35 3627
electronics.emea@heraeus.com