

## Technical Data Sheet

### THICK FILM MATERIALS

Product Type: Dielectrics

Product Name: SG-335



Pb and Cd free High Fire Sealing Glass

#### Description

SG-335 is a Pb & Cd free overglaze with a wide firing window that fires to a clear dense hermetic film. It was developed for use on substrates having a low coefficient of thermal expansion; particularly, aluminum nitride, silicon nitride, and silicon.

#### Key Benefits

- REACH<sup>1</sup> and ROHS<sup>2</sup> compliant
- Low coefficient of thermal expansion (CTE)
- Dyed for inspection purposes
- Single coat application

#### Typical Properties

##### Viscosity

50 – 80 Kcps, Brookfield RVT, SC4-14 spindle at 10 rpm in 6R utility cup, at 25 °C

##### Solids

65.0 – 70.0 %

##### Coefficient of Thermal Expansion

40 – 350 °C  
2.5 – 3.5 ppm/°C

#### Recommended Processing Guidelines

##### Printing

165 – 200 mesh stainless steel screen  
Allow 2 minutes to level before drying

##### Drying

150 °C peak temperature  
10 minutes dwell time

##### Firing

850 – 925 °C peak temperature  
5 – 7 minutes dwell time

##### Thinner

RV-372

##### Warranty

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

##### Storage

Store in a dry location at 5 – 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.

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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

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