

Technical Information

5680G Overglaze Paste

The 5680G is a high temperature overglaze paste was designed for general protection of electronic circuitry. It fires at temperatures 750°C-900°C to a green shiny finish. A colorless version, 5680, and a black version, 5680B, are also available. The 5680G, 5680 and 5680B compositions do not contain

lead, cadmium, nickel, or highly toxic organic solvents. Key features include:

- RoHS Compliant
- Excellent Hermeticity
- Resistance to Electroplating Solvents
- High Operating Temperatures

TYPICAL FIRED FILM CHARACTERISTICS

Color	Green Paste / Translucent Green Fired Film
Firing Temperature	750°C - 900°C
Surface Finish	Shiny

COMPOSITION PROPERTIES

Viscosity:	120 ± 30 Kcps, when measured with Brookfield HBT viscometer, Spindle #14, utility cup, 10 rpm, 25°C
Specific Gravity:	1.5 – 1.9 g/cm ³
Recommended Thinner:	KOARTAN A-1039

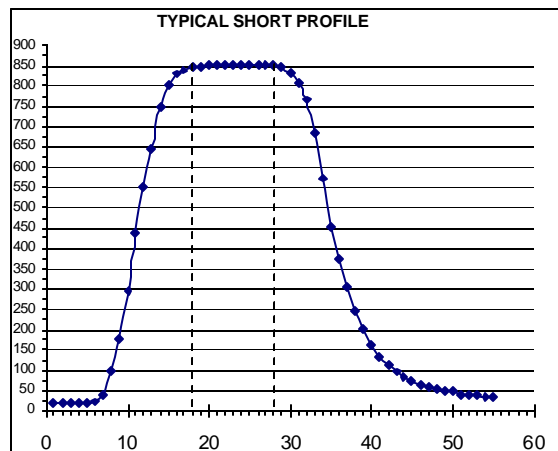
RECOMMENDED PROCESSING PROCEDURE

Printing: Printing with 250 mesh stainless steel screen using 10-15 μm emulsion and 45 degree angle is recommended. Other mesh counts, 200-325, and emulsion thicknesses, 5-25 μm , may be used for special applications.

Coverage is approximately 150 cm^2/g per layer, when utilizing 250 mesh screen and a wet print thickness of about 35 μm .

Drying: Wet prints should be allowed to level for 5-10 minutes prior to drying. Dry for 10-15 minutes in a convection oven or belt dryer at 125°C-150°C.

Firing: Firing in air using a belt furnace and a 36-60 minute profile, with 10 minutes at a peak temperature of 750°C-900°C is recommended. Air flow rates must be optimized to ensure that the products of binder burn-off discharge properly and create a fully oxidizing atmosphere in the muffle.



Temperature (°C) vs. Time (minutes)

Storage and Shelf Life: Store in tightly capped containers at room temperature. Shelf life is 6 months for unopened jars. Thorough mixing of the paste before each use is recommended. Under ordinary conditions of storage and use the product should not require thinning. However, solvent loss during extended printing runs may be replaced by incorporating up to 0.5% of Koartan A-1039 thinner.

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