

3612

Conductor

Description

3612 is a gold conductor paste designed use in chip and wire bonding applications and for use in manufacturing multilayer interconnection circuitry. 3612 fires to a dense, pin-hole free film.

Key Features

- Excellent Au wire bondability Dense fired film



Typical Properties

Viscosity	210 – 250 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Solids	88.0 ± 2.0%
Coverage	65-70 cm 2 /gm (Calculated from 50 micron wet film)
Resistivity	≤ 2.5 milliohms per square at 25 microns fired film thickness
Solderability	Complete wetting with Au-Sn solder paste at 300°C

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Recommended Processing Guide

Printing Parameters	325 stainless steel mesh screen 0.3-0.6 mil emulsion Allow parts to level at room temperature for 10 -15 minutes before drying, but parts should be dried as soon as possible after leveling. Wet parts should be covered if not dried right away.
Printing Speed	Up to 15 cm/sec (6 in/sec)
Drying Temperature	150°C for 5-10 minutes
Process Temperature (TDS)	850°C to 950°C peak temperature Dwell time of 5-10 minutes at peak
Film Thickness	Fired 8-14 microns
Line Definition	> 125 microns (5 mils)
Recommended Thinner	Heraeus RV-507

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Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

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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