

DuPont CB459

PLATABLE SILVER CONDUCTOR

Technical Data Sheet

Product Description

DuPont CB459 is a polymeric platable silver composition. It can be easily applied using standard screen printing techniques.

Product Benefits

- Additive process
- Thermoset type of resin
- Single composition type
- Low temperature curing (200°C, 30 min.)
- High plated adhesion
- Stable viscosity / rheology
- Good platability

Processing

Screen Printing Equipment

Reel-to-reel, semi-automatic, manual

Screen Type

Stainless Steel (200 –280 mesh) or equivalent polyester screen

Ink Residence Time on Screen

>1 hr

Substrate

Kapton®, epoxy glass, 96% Alumina, and others

Viscosity

Viscosity = (16-22 Pa S.) Brookfield HBT, 10 rpm # 14 spindle UC&S, 25°C.

Thinning

DuPont CB459 is optimized for screen printing and thinning is not normally required. For minor adjustments, thinner DuPont 9245 is recommended.

Resistivity (Prior to Plating)

< 50 m ohms per sq @ 25 ums

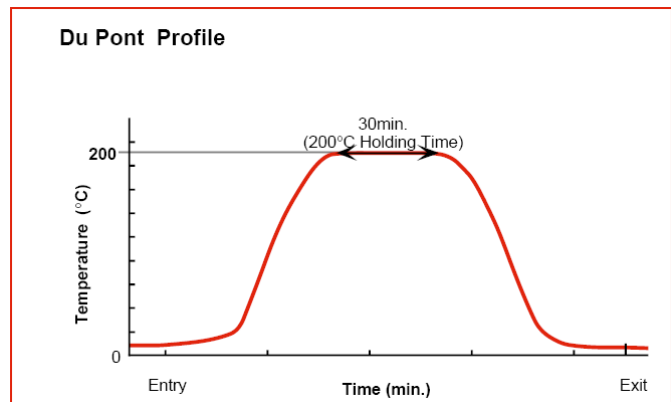
Drying (belt or box oven)

A drying step prior to curing is recommended.

Parts should be allowed to level at room temperature for 5 - 10 minutes and then dried at 150°C for 10 minutes.

Curing (belt or box oven)

Properties are based on a curing cycle with 30 minutes at peak of 200°C. Lower curing temperatures may be possible but will require longer cure times.



Storage and Shelf Life

Containers should be stored in a clean and stable environment at 0 - 5° C. Shelf life of material in unopened containers is three months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Safety and Handling

For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).

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