

# 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)

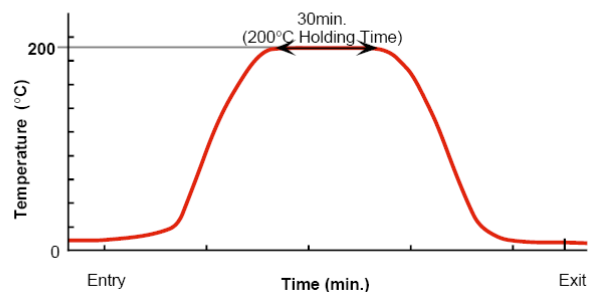
A drying step prior to curing is recommended.

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.

Du Pont Profile



## 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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