

# Technical Data Sheet

## Conductive Silver Adhesive PS4110

### Application

PS4110 is a single component, electrically conducting and flexible Ag paste (when cured) with quick curing capabilities at room temperature. PS4110 was designed primarily for syringe dispensing for flexible film applications.

PS4110 Polymer Ag is formulated and processed to be RoHS compliant.

### Typical Formulation Properties

**Viscosity:** Using an Anton Paar MCR 102 cone and plate viscometer 1 min at 25 °C, shear rate 0 – 200 s<sup>-1</sup>: 30 - 60 Pa.s at 9.6 s<sup>-1</sup>.

**Silver Content:** 82.5%

**Specific Gravity** (according to ASTM): 3.5 – 4.5 g/cm<sup>3</sup>

**Storage and Shelf Life:** This product should be stored in tightly sealed containers at + 6 to + 8 °C, in dry place away from direct sunlight. Do not store at temperatures below +3 °C. The shelf life of a factory sealed container is a minimum of 4 months from date of shipment when properly stored.



### Typical Process Parameters

**Thinning:** This paste is formulated at the appropriate viscosity for the intended application. Contact Technical Service for recommended thinner to replace solvent loss.

**Mixing:** Thoroughly mix PS4110 prior to use. If the material is supplied in syringes, no mixing is required.

**Cleaning:** Clean equipment, removal of PS4110 may be facilitated through use of hydrocarbon solvent.

**Curing:** PS4110 will achieve low resistivity within 30 minutes at room temperature.

### Typical Cured Properties

**Colour:** Light Grey

**Resistivity** (initial @ 135 °C / 10 s): < 10 Ω.cm

**Resistivity after curing** (@ 135 °C / 10 s + RT / 5 min + 135 °C / 1 min): < 0.006 Ω.cm

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