

INKTRONIC CA 9418

Provisionary Technical Data Sheet

Graphene Conductive Ink

DESCRIPTION

Graphene Conductive Ink INKTRONIC CA 9418 is a screen-printable thermoplastic graphene ink for low temperature applications.

When fully cured the ink has good adhesion to a wide range of substrates including polyester, polycarbonate and glass.

PRODUCT BENEFITS

- Screen printable
- Excellent adhesion to polyester film
- Low temperature cure (80-120 °C)
- Typical properties of uncured material

Solid content	41% à ± 1,0%
Viscosity – Lami CP2000	5.0-6.0 Pa.s (25 °C)
Shelf life	12 months @ 5 to 25 °C

RECOMMENDED PROCESSING CONDITIONS

Screen printing :

230 stainless steel mesh with 13 µm emulsion

Curing :

Cure by fan circulated box oven 30 minutes @ 80 °C, 15 minutes à 120 °C

TYPICAL PROPERTIES OF CURED MATERIAL

Normalized Resistance @ 25 µm	≤ 5 ohms/ sq
Cured film thickness	10-12 µm
Adhesion Grade	Good 5B adhesion

GENERAL INFORMATION

For safe handling information on this product, consult the MSDS.

DIRECTIONS FOR USE

Stir Graphene Conductive Ink INKTRONIC CA 9418 prior to each use.

Bring product to room temperature prior to use.



CLEANING

To clean the screen and equipment, use Solvent ECO N or other suitable solvents.



STORAGE

- Store the product in the unopened container in a dry place.
- Storage information may be indicated on the product labelling.
- Store in a dry place at 5 to 25 °C.
- **DO NOT REFRIGERATE**
- Ink from containers may become contaminated during use, never put ink back in the original pot.

Encres DUBUIT guarantees the quality of our products. However, we cannot guarantee the final result, because we exercise no control over individual operating procedures. Our responsibility is limited solely to the exchange of ink or varnish. The quality of a substrate to be printed can vary, as well as an overprinted ink; therefore, the above information is given in good faith based on the state of our art and prior experience. This statement also applies to our technical assistance. When using our inks and varnishes on a new substrate or when changing operating procedures, we strongly recommend testing first a full-scale production to ensure compatibility. Please refer to our General Conditions of Sales.

