

TECHNICAL SPECIFICATIONS

PRODUCT DESCRIPTION

The ECV-003 is a UV varnish.

APPLICATIONS

Compatible with PET, TCA, Polycarbonate, TPU, textile...

The above-mentioned substrates may differ according to their origin.

It is therefore essential to carry out preliminary test.

MAJOR ADVANTAGES

Great electrical insulation. Varnish resistant to UV doses higher than recommendations.

ELECTRICAL PROPERTIES

Breakdown voltage* ≤ 4000 Volts (2 layers).

PRINTING

Machines: automatic, semi-automatic and manual silkscreen machines.

Screen: Polyester or stainless-steel fabrics with a mesh from **79 to 120** threads/cm.

Squeegees: polyurethane **75/90/75 Shore A**, good sharpness.

Dilution: no dilution must be performed before printing. However, a manual shaking is recommended before use.

Cleaning: we recommend ethyl acetate and ethyl ethoxy propionate as cleaning solvents.

TYPICAL DEPOSITED THICKNESS

(77 threads/cm polyester mesh) : **30 microns (2 layers)**

ANNEALING CONDITIONS

Broad spectrum UV lamp (mercury/xenon)

Max absorption peak : **359/365/380/383 nm**

PACKAGING

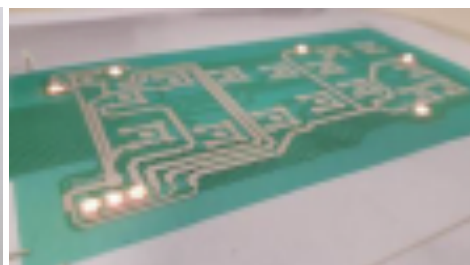
High density polyethylen pots (HDPE). Open pot for sampling must be carefully closed as soon as possible.

Table 1: Physical properties on PET TCA (125 μ m)

TESTS	PROPERTIES
Polymerization energy (mJoules/cm ²)	>300
Breakdown voltage (Volts)	≤ 4000
Adhesion (cross cut test)	Level 0
Scotch resistance 3,5 N and 7,5 N	No Ag transfer
Density	1,13

Table 2: rheological properties

TESTS	PROPERTIES
Viscosity (Pa.s) Rotathinner 562 RPM, 25°	9,5
Varnish color	Green
Range chemical compatibility	Silver Electron
Coverage (m ² /kg)	44,25
Isolation resistivity (TeraOhm)	>2
Breakdown voltage (Volts) : 1 layer (mesh 77)* 2 layers (mesh 77)*	1637 4462
*measurements carried out according to the IPC-2152 Standard with thermal cycles : 20/40/60/80/100/120°C	



WASTE MANAGEMENT

Packaging contaminated with hazardous substances.
Do not dispose into the environment.

VFP Ink Technologies encourages all users to develop a responsible environmental policy.

HEALTH AND SAFETY

Refer to the MSDS.
We recommend that you wear Personal Protective Equipment recommended by the MSDS and follow its handling precautions.

STORAGE

1 year in its original packaging stored at room temperature.
Stir the ink before use.

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