

TECHNICAL SPECIFICATIONS

PRODUCT DESCRIPTION

The ECV004 is a UV varnish.

APPLICATIONS

Compatible with paper, cardboard, PET, polycarbonate, treated polyester.

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 et 90 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: MP201.

TYPICAL DEPOSITED THICKNESS

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

DRYING CONDITIONS

Broad spectrum UV lamp (mercury/xenon)

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

PACKAGING

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



Ink properties	
TEST	PROPERTIES
Polymerization energy (mJoules/cm ²)	>300
Density	1,13
Viscosity (Poises) Rotothinner 562 RPM, 25°C	75
Varnish color	Transparent
Range chemical compatibility	Silver Electron
Coverage (cm ² /g)	400 - 440
Shelf-life on screen (min)	60 min

Physical properties of conductors printed on PET TCA (125 µm)	
TEST	PROPERTIES
Breakdown voltage (Volts)	≥ 4000
Isolation resistivity (TeraOhm)*	> 2
Adhesion (cross cut test)	ISO Class 0 according to EN ISO 2409 :2020 standard.

*Measurements conducted according to 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.

Guarantee reserves: Although the data in this leaflet have been established after careful testing, it is provided as a guide; no liability can arise from this for VFP, it being understood that we advise you to carry out preliminary tests before any commercial draw. No seller, representative or agent has the right to give any guarantee or insurance, which would be in contradiction with what is said above. In any case, refer directly to our general conditions of sale.

HEALTH AND SECURITY

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 between +5°C and +35°C.