

Kao Collins Inc.

TWW1929

Kao Collins Inks for HP 45A Technology

Invisible Fluorescent Red Activated with Long Wave UV illumination (UVA)

TWW1929 is a water-based invisible security ink that is activated under black-light illumination to give a red emission color.

Ink Features

- Fluid based: Aqueous
- Colorant: Proprietary
- Flash Point: $> 100^{\circ}C$
- Shipping info: Non-hazardous

Recommended Printer Settings

Pen driver voltage: 10.2 V
Fire pulse length: 2.2 μs
Pulse warming: 40 $^{\circ}C$

Printhead Performance

Decap time: < 4 hr
Shelf life (single) 6 months

Cartridge Maintenance & Handling

- Use a water dampened lint-free cloth to clean the print head
- Wipe slowly and lightly across tip of the long edge with the print head facing down
- Forcing the wipe (too much pressure) may scratch the print head
- Use of a cloth with lint may clog the nozzles

Cartridge Storage

- Operating conditions: 10 – 40 $^{\circ}C$
- Storage conditions: 10 – 30 $^{\circ}C$
- Less than 1 day down: leave cartridges in the machine and wipe/purge before next use
- More than 1 day down: remove cartridges from machine and place cartridge clip (available from Kao Collins) over the head, wipe and purge before use

Substrate Performance • 600x300 DPI • Dryer: OFF • Rating: 1–5 (5=Best)

Disclaimer: The information presented in this data sheet is intended only as a guide and does not infer a warranty of performance. Results may vary depending upon many variables including the specific grade of substrate, environmental conditions, print speed, etc.

Sample Substrate	28 lb Writing (no OBA) ¹	Chipboard	Clay Coat Box
L [CIE] @ 365 nm ²	24.4	11.1	51.0
Unassisted Dry Time	0.5 sec	0.5 sec	1 sec
Dry Rub Resistance	5	5	5
Wet Rub Resistance	2	5	5

Note:

¹Substrate contains no Optical Brightening Agent

²Relative emission intensity with UV illumination