Kao Collins Inc.

Super Fast Black **TWK1961H** Kao Collins Inks for HP 45A Technology

Darker Image
Fast Dry Time

Super Fast Black dye-based ink was designed to print on scratch-off lottery tickets. It produces a high quality, scannable image that dries well on a porous and semi-porous substrates. This ink provides adequate decap time and very little maintenance.

Ink Features

- Fluid base: Aqueous
- Colorant: Dye
- Flash Point: $> 100^oC$
- Shipping info: Non-Hazardous

Recommended Printer Settings

Pen driver voltage:	10.2 V
Fire pulse length:	2.2 μs
Pulse warming:	40^oC

Printhead Performance

Decap time:	$<$ 30 min
Shelf life (single/bulk)	2 yr/6 mo
Not Recommended for bulk use	

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
- DO NOT SHAKE CARTRIDGES: shaking a cartridge can create foam and the entrained bubbles may cause printing failure

Cartridge Storage

- Operating conditions: $10 - 40^oC$
- Storage conditions: $10 - 30^oC$
- 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	**Copy Paper**	**70# Gloss**	**Matte**	**Chipboard**	**Clay Coat Box**
Optical Density	.90	1.17	.99	1.13	.86
Unassisted Dry Time	1 sec	2 sec	1 sec	1 sec	1 sec
Wet Rub Resistance	4	5	5	5	5

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