

Kao Collins Inc.

Complete

Kao Collins Inks for HP 45A Technology

Darker Image Versatility

Complete is a Dye/Pigment hybrid that is formulated to print on both coated and non-coated substrates. This ink will dry quickly and give good permanence on coated stocks, while maintaining excellent print quality and a dark image on non-coated.

Ink Features

- Fluid base: Aqueous
- Colorant: Dye/Pigment
- 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: < 1 min
Shelf life (single/bulk) 2 yr/6 mo
Bulk Cartridge Throughput¹ 400 mL

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	1.09	1.16	1.11	1.13	1.13
Unassisted Dry Time	1 sec	6 sec	1 sec	1 sec	5 sec
Wet Rub Adhesion	5	3	4	5	3

Note:

¹Throughput before nozzle failure will vary based on application parameters; e.g., DPI, Nozzles Used, Duty Cycle, & Print Speed

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 $^{\circ}C$
- 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 Collins Ink) over the head, wipe and purge before use