

Kao Collins Inc.

MAX 3

TWK1396

Kao Collins Inks for HP 45A Technology

Very Aggressive Difficult Substrates

Max3 is an aggressive ink that was specifically designed for PVC and plastic card printing. It will also print on aqueous coated paper, varnished media and other difficult substrates. Max3 was formulated to produce a tighter image on substrates with a lower surface tension.

Ink Features

- Fluid base: Water
- Colorant: Pigment
- Flash Point: $> 89^{\circ}C$
- 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 hr
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	Kelstar AQ 587	Chipboard	PVC Card
Optical Density	.96	1.31	1.37	1.16	.75
Unassisted Dry Time	1 sec	1 sec	1 sec	1 sec	3 sec
Wet Rub Resistance	5	1	5	5	4

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 Kao Collins) over the head, wipe and purge before use