

Endurance

TWK2010H Collins Brand Inks for HP 45A Technology

Dark Image on Various Substrates

High Yield in Bulk

Endurance Black is a dye-based ink that was designed for bulk applications. It provides a dark image and high contrast throughout which can result in lower impression costs.

Ink Features

- Fluid base: Aqueous
- Colorant: Dye
- Flash Point > 70°C
- Shipping info: Non-Hazardous

Recommended Printer Settings

Pen driver voltage: 10.2 V
Fire pulse length: 2.2 μs
Pulse warming: 40°C

Printhead Performance

Decap time: > 1 hr
Shelf life (single/bulk): 1 yr/6 mo
Bulk Cartridge Throughput¹: >600 mL

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°C
- Storage conditions: 10 – 30°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

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	1.04	1.13	1.05	.93	.92
Unassisted Dry Time	1 sec	2 sec	1 sec	1 sec	1 sec
Wet Rub Resistance	5	4	5	5	5

Note:

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