

# Super Fast Black **TWK1961H** Collins Brand 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°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: < 30 min  
Shelf life (single/bulk) 1 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

### 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	.90	1.17	.99	1.13	.86
Unassisted Dry Time	1 sec	3 sec	1 sec	1 sec	1 sec
Wet Rub Resistance	4	5	5	5	5