Data sheet

HP 2590 Black Solvent Smart Card Print Cartridge

Fast-dry ink for your coding and marking needs

Key highlights
- Outstanding durability on BOPP
- Excellent durability on a wide range of substrates including films
- Fast dry time 3 - 5 seconds[1]
- Long decap time (24 hours) – Ideal for intermittent printing

[1] Based on HP internal testing. Ink performance may vary based on substrate, printing system, and environmental conditions such as high humidity and high temperatures over 35C. Test the ink in your application to understand true performance.

[2] Meets GMP standards for food packaging inks, in compliance with applicable regulations and commonly referenced industry standards, when used to print product identification text and bar codes on the external surface of food packaging. Learn more at hp.com/go/thermalinkjet.

Are you looking for long durability for your coding and marking applications? What about fast dry time, GMP approved, or the ability to print on films? You will see all of that with the HP 2590 Black Solvent Smart Card Print Cartridge. Utilizing well-proven HP 45si Print Cartridge technology with HP 2590 solvent ink, this combination of HP engineered technology is designed to meet and exceed your coding and marking production and regulations needs.

Designed for coding and marking on films, including BOPP
HP 2590 solvent ink provides industry-standard durability on untreated BOPP, and excellent durability on treated BOPP and a wide variety of other substrates, including PE, PET, UV, aluminum foil and PVC. [1]

Meet rigorous food and pharma packaging requirements
Comply with new, rigorous regulations in the most demanding markets, including food, pharmaceutical, and industrial with this GMP-compliant HP ink.[2]

High productivity even with stop and start printing
Printing with the HP 2590 Black Solvent Smart Card Print Cartridge is easy in intermittent and fast printing production environments. The long decap time of the ink allows your operators to leave the cartridge uncapped for up to 24 hours with immediate recovery after restarting printing.

Consistent, high print quality for bar codes and text
Get best-in-class print definition and optical density from the combination of HP TIJ 2.5 technology and HP 2590 solvent ink. You will see the high print quality that is required in many markets including pharmaceutical and industrial marking.

Proven quality and reliability
The HP 45si Print Cartridge combined with HP-developed inks have been a proven technology of choice for many Original Equipment Manufacturers over many years. With over 50 million HP original ink cartridges shipped globally, HP provides you with assured supply, HP quality and reliability.

Technical specifications

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Ink type	Original HP solvent ink
Print cartridge type	HP 45si Print Cartridge optimized for non-porous printing with built-in intelligence
Resolution	Up to 600 dpi (recommended 300 x 300 dpi)
Nozzle count	300
Print swath	12.7 mm (0.5 in)
Throw distance[3]	Up to 5 mm
Firing voltage	8.7 V
Fire pulse width	1.8 microseconds
Pulse warming	Off
Average drop volume	29 pl
Ink fill level[4]	47 ml
Number of electrical interconnect pads	52 + 4 (printhead + Smart card)
Operating conditions	15 to 35° C / 59 to 95° F, 35 to 80% RH
Print cartridge servicing	Use lint-free wipe that is either dry or wetted with ethanol or isopropyl alcohol (IPA)
Shipping/storage conditions	−20 to 35° C / −4 to 95° F, 20 to 80% RH (if product is below 10° C, a 6-hour warm-up within the operating temperature is required prior to use) Altitude: 0 to 5000 meters (0 to 16,404 feet) Orientation: nozzles up or side
Additional shipping requirements	Dangerous goods restrictions; for more information, see the Material Safety Data Sheet (MSDS) at hp.com/go/spsmsds

Ordering information

Product number	Product description
W3T10B	HP 2590 Black Solvent Smart Card Print Cartridge

[3] Recommended. May vary by application.
[4] Average delivered ink is 34 ml (vertical) and 33 ml (horizontal).

Learn more at
hp.com/go/oeminkjet