

# IS442

## Dark Black Solvent Ink

IS442 is a high performance solvent based ink for PVC, formulated to penetrate a rigid PVC pipe surface resulting in a permanent image. IS442 is also well suited for PE, PETE, Polycarbonate, Polyurethane, coated labelstock, coated cardstock, and other non-porous substrates. Featuring improved decap time of 60 minutes, it is available in HP 45 cartridges and Integrated Bulk Cartridge (IBC) systems. With twice the darkness of IS441, this ink is well suited for barcode printing.

### General Specifications

Ink part number	IS442	
Target substrates	Non-porous	
Ink vehicle	Alcohol	
Colorant type	Dye	
Drop volume	30 pL	Varies with frequency and temperature
Maximum firing frequency	15 kHz	
Shelf life (single cartridge)	2 months	Refrigerate for longer shelf life
Dry time	10 seconds	On rigid PVC pipe, varies with substrate and temperature
Operating conditions	0-40°C	
Storage conditions	<30°C	
Voltage	8 V	
Pulse width	2.2 $\mu$ sec	
Head warming temperature	40°C	Turn off warming when not printing for > 1 hour
Decap time	60 minutes	



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### Cartridge Maintenance and Handling

- Clean the cartridge with a lint free cloth and wipe along the length of the printhead.
- If necessary, moisten the cloth first with denatured alcohol (not rubbing alcohol).

### Cartridge Storage

- Remove cartridge from printer and replace clip if cartridge will not be used for 24 hours or more.
- Store cartridges in a cool environment

### Disclaimer

WE DECLARE OUR LIABILITY TO BE THE PRICE OF THE CARTRIDGE. We are committed to a continuing program of product improvement. Thus, please be advised that specifications, performance, parameters and appearance of our products are subject to change without notice. The information (including performance parameters) provided about this ink is based on tests conducted under controlled conditions. Since conditions of actual use may differ and are beyond our control, use this ink at your own risk and test for suitability in the application. We only guarantee initial start-up of the cartridge prior to the use by date listed on the cartridge packaging.  
MSDS IS AVAILABLE UPON REQUEST.