

**Product Name: LS-4101**

**Product Code: I0619**

**Substrates Marked**

Preferred: Non-porous substrates such as Tyvek, PVC, Aqueous Coated Stock and Plastic Cards

**Product Specifications/Characteristics**

<b>UN Number</b>	Not Regulated	<b>Type</b>	TIJ
<b>Shelf Life</b>	6 months (Single Use Cartridge and Bulk Bottle)	<b>Fluid Base</b>	Hybrid
<b>DOT Regulations</b>	Not Regulated	<b>MSDS Sheet Number</b>	100327
<b>Colors Available</b>	Black	<b>Drying Time</b>	<5 min.
<b>Specific Gravity</b>	0.9-1.1	<b>Flash Point</b>	>192°F (>89° C)
<b>HMIS Rating</b>	2-2-0	<b>NFPA Rating</b>	2-2-0
<b>Operating Conditions</b>	55-95° F (13-35° C)	<b>Recommended Storage</b>	50-86°F (10°-30° C)

**Recommend Printer Settings**

<b>Pen Driver Voltage</b>	10.8 V	<b>Decap Time (pulse warming off)</b>	27 sec.
<b>Pulse Warming</b>	On	<b>Pulse Warming Temp</b>	>42° C
<b>Pre-Fire</b>	250 ns	<b>Gap Fire</b>	1525 ns
<b>Main Fire</b>	725 ns	<b>Firing Frequency</b>	12 kHz

**Description/Special Properties**

The LS-4101 is a water/solvent based ink the prints on non-porous substrates including Tyvek, PVC, aqueous coated stocks, and plastic cards. This fast drying ink produces a quality image that is smudge resistant on a variety of media.

<b>Substrate Performance</b>	600 x 300 DPI		Dryer: Off		Rating 1-5 (5=Best)
<b>Target Substrate</b>	<b>Aqueous Coating</b>	<b>Porous Stock</b>	<b>Varnishes</b>	<b>PVC (30 mil)</b>	
PMS Color	Black	Black	Black	Black	
Optical Density	1.43	0.93	1.46	1.58	
Dry Time	2 min	1 sec	2 min	5 min	
Dry Rub Resistance	5	5	5	5	
Water Fastness	4	5	3	4	
Wet Rub Resistance	4	4	2	5	

Use a lint free cloth to clean the print head. Wipe slowly and lightly across the 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.

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 over the head, wipe and purge before use.

**Formulations Available**

<b>Item Number</b>	<b>Name</b>	<b>Unit of Measure</b>
71085153/I0619-902-87	LS4101 SU Black Ink	Single Use Cartridge
71076906/I0619-902-86	LS4101 QD Black Ink	Quick Disconnect Use Cartridge
71076907/I0619-902-83	LS4101 LB Black Ink	1 Liter Bulk Bottle

A Material Safety Data Sheet is furnished with every order

**Original Date:** February 28, 2013

**Revision Date:** July 15, 2016