

# Archival Test Certificates

The attached document covers the fade resistance tests carried out on PermaJet Fine Art Media by Shirley Technology.

Certificate # 20414 covers the use of Epson Ink  
Certificate # 20327 covers the use of PermaJet Ink

These tests are conducted by a UKAS approved laboratory and show the results as meeting the Fine Art Trade Guild standards of 6+ on the "Blue Wool" scale,  
Stored in normal viewing conditions this translates to 85 years +.

## CONFIDENTIAL TEST REPORT

Our Ref : 20237  
Your Ref :

Page 1 of 2  
24 August 2006

**Client:** The Imaging Warehouse  
Unit 1A, Harris Road  
Wedgnock Industrial Estate  
Warwick  
CV34 5JU

**Job Title:** Various Tests

**Client's order no.:**  
**Date of receipt:** 9 August 2006  
**Date of test start:** 11 August 2006

**Description of sample(s):**

**PermaJet Fine Art Media Using PermaJet Inks**

**Work requested:** Shirley Technologies Ltd. were requested to carry out a light fastness test and a pH test on the sample supplied.

**UKAS Accreditation:** Our Laboratories are UKAS accredited. However, it should be noted that tests marked \* are not UKAS accredited in this report and are not included in the UKAS Accreditation Schedule for our laboratory, either due to the work not conforming fully to the standard (e.g. reduced number of specimens) or to it being outside the scope of our accreditation, or subcontracted

**Testing Atmosphere:** Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN ISO 139:2005) of 65±4% r.h. and 20±2°C.

This report is incomplete without all the pages specified above, together with a copy of our standard terms of business.

## CONFIDENTIAL TEST REPORT

Our Ref : 20237  
Your Ref :

Page 2 of 2  
24 August 2006

### Colour Fastness To Light

Specimens representative of the printed area of the sample were exposed on the Xenotest 150 fading lamp under normal conditions, together with British Light Fastness Standards Nos. 2 - 6 (BS EN ISO 105 - B02:1999 Method 2). By comparison with the behaviour of the standards, the fastness to light of the sample may in our opinion be rated as follows:- (8 represents maximum fastness and 1 minimum fastness).

N.B. the result quoted below is the worst grade only.

#### Light Fastness Rating

'better than 6'

### Determination Of pH Of Aqueous Extract

The un-printed area of the sample was extracted in distilled water (extracting solution A), according to the method described in BS EN 1413:1998 (withdrawn). The pH and temperature of the extract was then measured using a pH meter.

<u>Mean pH value</u>	<u>pH of the extracting solution (distilled water)</u>	<u>Temperature of the solution °C</u>
7.1	5.0	23.1

The information contained on page no's 1/2 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by Shirley Technologies Ltd. on the materials referred to.

Signed D M Dickson Date 24.8.06

D M Dickson (Mrs)  
Senior Technician - Textiles

Signed Julia Bullers Date 24.8.06

J M Bullers (Mrs)  
Operational Head - Textiles

JMB/20237

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## CONFIDENTIAL TEST REPORT

Our Ref : 20414  
Your Ref :

Page 1 of 2  
13 October 2006

**Client:** The Imaging Warehouse  
Unit 1A, Harris Road  
Wedgnoek Industrial Estate  
Warwick  
CV34 5JU

**Job Title:** Various Tests

**Client's order no.:**  
**Date of receipt:** 27 September 2006  
**Date of test start:** 29 September 2006

**Description of sample(s):**

**PermaJet Fine Art Media Using Epson OEM Inks**

**Work requested:** Shirley Technologies Ltd. were requested to carry out a light fastness test and a pH test on the sample supplied.

**UKAS Accreditation:** Our Laboratories are UKAS accredited. However, it should be noted that tests marked \* are not UKAS accredited in this report and are not included in the UKAS Accreditation Schedule for our laboratory, either due to the work not conforming fully to the standard (e.g. reduced number of specimens) or to it being outside the scope of our accreditation, or subcontracted

**Testing Atmosphere:** Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN ISO 139:2005) of 65±4% r.h. and 20±2°C.

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## CONFIDENTIAL TEST REPORT

Our Ref : 20414  
Your Ref :

Page 2 of 2  
13 October 2006

### Colour Fastness To Light

Specimens representative of the printed area of the sample were exposed on the Xenotest 150 fading lamp under normal conditions, together with British Light Fastness Standards Nos. 2 - 6 (BS EN ISO 105 - B02:1999 Method 2). By comparison with the behaviour of the standards, the fastness to light of the sample may in our opinion be rated as follows:- (8 represents maximum fastness and 1 minimum fastness).

N.B. the result quoted below is the worst grade only.

#### Light Fastness Rating

'better than 6'

### Determination Of pH Of Aqueous Extract

The un-printed area of the sample was extracted in distilled water (extracting solution A), according to the method described in BS EN 1413:1998 (withdrawn). The pH and temperature of the extract was then measured using a pH meter.

<u>Mean pH value</u>	<u>pH of the extracting solution (distilled water)</u>	<u>Temperature of the solution °C</u>
7.2	5.3	21.5

The information contained on page no's 1/2 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by Shirley Technologies Ltd. on the materials referred to.

Signed..... D M Dickson ..... Date..... 13.10.06

D M Dickson (Mrs)  
Senior Technician - Textiles

Signed..... J M Bullers ..... Date..... 13.10.06

J M Bullers (Mrs)  
Operational Head - Textiles

JMB/20414

This report is incomplete without all the pages specified above, together with a copy of our standard terms of business.

