Archival Certification Document
PermaJet Inkjet Media

Omega Rag 310

PermaJet
1a Black Hill Industrial Estate
Sand Barn Lane
Stratford-upon-Avon
CV37 0FA
United Kingdom

ArtSure

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This document has been compiled as a summary of information from testing procedures conducted by a fully certified UKAS laboratory which is qualified to carry out such tests to the high standards created by the Fine Art Trade Guild. All tests have been performed under specific controlled conditions and in an environment emulating simulated sunlight exposure and in consideration of realistic environmental factors.

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Company:	PermaJet
Address:	1a Black Hill Industrial Estate Sand Barn Lane Stratford-upon-Avon CV37 0FA United Kingdom
Job Title:	Colour fastness to light and pH on a specified PermaJet inkjet paper sample.
Description of Sample(s):	One printed image and one unprinted sample on the PermaJet inkjet paper indicated below, using a photo inkjet printer with aqueous pigment ink (8 colours or more) referenced by the Client:- **Omega Rag 310**
Work Requested:	Light fastness tests of the unprinted and printed samples supplied.

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Colour Fastness to Artificial Light: Xenon Arc Fading Lamp Test
A specimen representative of the printed area of the sample, black in colour, was tested in accordance with BS EN ISO 105-B01:2014 - Method 2 (ISO 105-B02:2014) using the following:

Apparatus:	Xenotest 220
Exposure conditions:	Normal
Test mode:	Not flip-flop
Blue wool reference materials used:	2 to 6

By comparison with the behavious of the blue wool reference materials, the numerical rating for the colour fastness to light is given below - 1 represents very low colour fastness to light, through to 8, which represents very high colour fastness to light.

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

Colour fastness to light rating:	Better than 6

Determination of pH of Aqueous Extract
Date of determination: 22.01.16. A portion of the un-printed sample was extracted in distilled water (extracting colution A), according to the method described in BS EN ISO 3071: 2006.

Mean pH value:	9.0
pH of the extracting solution (distilled water):	5.5
Temperature of the extracting colution °C:	16.4

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APPENDIX

Fine Art Trade Guild Standards

The purposes of the Fine Art Trade Guild is to protect the interests of consumers and maintain confidence in the art and framing industry. Artists, publishers and fine art printers are encouraged to promote their high standards and the integrity of their limited editions.

Key Requirements

- Light fastness of finished print, resulting of "6" or more on the Blue Wool Scale in all areas of the print - or it's equivalent under empirical test conditions.
- Guild standard pH for a substrate of 7-9, amended September 2002 to pH 7-10.
- Minimum weight of substrate of 250gsm.

Testing Standards

Results - Blue Wool "6" being the equivalent to an 85 years display life. Blue Wool 6 is the accepted standard for limited edition prints in the inkjet market.

Colour Fastness to artificial light: Xenon arc fading lamp test

1. Blue Wool Reference Scales

Blue wool references developed and produced in Europe are identified by the numerical designation 1 to 8; these references are blue wool cloths dyed to varying colour depths. They range from 1 (very low colour fastness) to 8 (very high fastness).

2. Humidity Test Control

The effective humidity can be measured only by determining the colour fastness of a specific humidity test control; the humidity test control is a red azoic dyed cotton cloth. If both the humidity fabric and the blue wool reference standard 5 fade to the same extent then the xenon arc fading lamp is operating at the preferred effective humidity of 40%.

3. Exposure Conditions

Normal conditions - moderate effective humidity, maximum black standard thermometer temperature of 50°C.

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APPENDIX (continued)

4. Exposure Method

Expose the specimen/s and the blue wool reference scales simultaneously under the desired conditions in such a manner and for such a time as is necessary to evaluate fully the colour fastness of each specimen relative to that of the references, by progressively covering botth the specimen/s and the exposed references during the test.
Firstly place an opaque cover across the middle one-third of the specimen/s and references. Expose to light under the specified conditions until the contrast between the exposed and the unexposed portions of the reference 4 can be perceived equal to grey scale grade 4. At this point cover the left hand two-thirds of the specimen/s and references and continue to expose to light under the specified conditions until the contrast between the exposed and the unexposed portions of the reference 6 can be perceived equal to grey scale grade 4.

5. Assessment of Colour Fastness

The final assessment, given a numerical rating, is based on comparing the changed in the specimen/s with the relevant changed in the blue wool references, under suitable illumination.

PermaJet
PROFESSIONAL INKJET MEDIA

Archival Quality Inkjet Media Certification

This certifies that the PermaJet professional inkjet media stated below has been given a light fastness rating of "6 or better".

Omega Rag 310

When tested for dulling and degredation, printed and unprinted specimens proven to be of a high quality stability for at least 85 years when used in conjunction with aqueous 100% pigment inks.

Approved by: .....

Steven Price
Operations Director
The Imaging Warehouse

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