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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22771-2008

**Graphic technology -- Prints and printing inks -- Assessment of
light fastness using filtered xenon arc light**

印刷技术 印刷品与印刷油墨用滤光氙弧灯评定耐光性

(English Translation)

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Foreword

This revised standard adopts ISO 12040:1997 "printed with a printing ink printing technology with filters xenon arc lamp light resistance evaluation" (English Chinese Version).

This standard 12040 and ISO .1997 for the difference.

--- References with GB/T 8427-2008 (ISO 105-B02:1994, MOD), the rest are identical.

For ease of use, the standard ISO 12040:1997 made the following editorial changes.

--- ISO 105-A02 to GB/T 250;

--- ISO 105-B02 to GB/T 8427;

--- Delete ISO 12040:1997 Foreword.

The standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee ink.

This standard was drafted. Beijing Institute of Printing, Luoyang one hundred Lin Wei Ink Co., Ltd., Zhejiang Yong Chemical Co., Ltd.

Introduction

The light resistance was evaluated in standard blue wool standards and ISO 2835. 1974 "print and printing ink lightfastness rating" provisions the method is technically consistent. However, ISO 2835 is the use of natural light to complete the effective light resistance measurement, this standard specifies A method of using a predetermined light source and simulate daylight filter and the test sample exposure to artificial sunlight accelerated test

method is carried out.

In addition, the presence of a partial agreement with ISO 105-B02. If you want to get more information on the instrument and test methods, reference may be Read ISO 105-B02.

Printing technology - Prints and printing inks Filter with a xenon arc lamp light resistance evaluation

1 Scope

This standard specifies the method for measuring print and printing ink lightfastness, and gives the following two test conditions.

--- Print basic test conditions;

--- Ink special test conditions.

This standard applies to paper, board, metal (thin sheet metal and sheet metal) and all kinds of printed plastic film substrates, and applies to all of India Brush mode.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 250 textile color fastness test assessing change in color like the gray card (GB/T 250-2008, ISO 105-A02.1993, IDT) GB/T 8427-2008 Textiles Tests for color fastness Colour fastness to artificial light. Xenon arc (ISO 105-B02.1994, MOD) ISO 2834 was prepared by printing technology laboratory testing of samples Lighting conditions ISO 3664 perspective chip color photography to observe and replicas

3 Terms and Definitions

The following terms and definitions apply to this standard.

Fixed light source in print is not directly affected by climate (filters xenon arc lamp) Resist the next role.

Resistant to a standard print, evaluation methods and evaluation methods specified in this standard are consistent prints.

4.1 Principle

Under specified conditions, the test sample and standard samples simultaneously on the blue wool xenon arc lamp exposure through a blue wool standard sample the level found in the test sample and the change to a similar level of light resistance was evaluated.

4.2.1 Xenon arc lamp device

With air or water cooling apparatus xenon arc lamp, a method specified by the manufacturer shall be used.

4.2.2 Blue wool standards

Through the eight blue dye wool standard level compared to evaluate the print lightfastness. These dyes are not affected by temperature and by humidity, and can form a gradation level corresponding to a different color, brightness and print type.