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

GB/T 32004-2015

**Information and documentation -- Permanence and durability of
writing, printing and copying on paper -- Requirements and test
methods**

信息与文献 纸张上书写、打印和复印字迹的耐久和耐用性 要求与测试方法
(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses redrafted Law Amendment uses ISO 11798:1999 written on "Information and Documentation paper, print and copy writing for Durability and durability requirements and test methods "(in English).

This standard and ISO 11798:1999 as compared in structure to do some adjustments, are listed in Appendix C of this standard and the ISO 11798.

1999 reg number change control list.

This standard and ISO 11798:1999 technical differences are as follows.

--- Normative reference file.

- consistent with our standards instead of the corresponding level of international standards;

- increase the reference GB/T 12823.4 (see 6.1);

- increase the reference HG/T 2993-2004 (see 5.4);

- delete references to ISO 7724-1;

--- 4.8.1 The tensile energy absorption (tensileenergyabsorption) to tensile strength (tensilestrength);

--- Delete international standards "document" "color dot writing" two terms and definitions, increase the "optical density", "light absorption" two terms and definitions;

--- The 6.3 light resistance test "Blackboard temperature (60 ± 3) °C" to "black panel temperature of (65 ± 3) °C".

This standard and ISO 11798:1999 in comparison, made the following editorial changes.

--- Some of the statements apply to international standards to apply to our standard formulation;

--- Delete ISO 11798:1999 Foreword;

--- Delete ISO 11798:1999 Annex C (informative) "Optical density measurement." this standard by the National Information and Documentation Standardization Technical Committee (SAC/TC4) and focal points.

This standard was drafted. the National Library, Renmin University of China, Shanghai Municipal Archives, Capital University of Economics and Business.

Introduction

Meet the requirements of this standard writing material and equipment to meet the writing durability and durability requirements, namely. in a protected environment Long-term preservation, writing little or completely change does not occur, will not affect the readability and file copying or conversion to other carriers (such as film) on possibility.

The main criteria for writing, printing and copying predetermined writing.

In assessing the durability and durability of writing, this standard specifies requirements and test methods. Some properties, such as abrasion resistance depends on the writing to the extent of binding and writing paper. Documented paper used may have a significant impact on the performance and durability of writing. The standard of measurement After the selection of the test conditions for the most representative market paper.

This standard has made the following provisions.

--- Writing optical density and appearance;

--- Light resistance;

--- Water resistance;

--- Handwriting transfer;

--- Abrasion resistance;

--- Heat resistance;

--- Recorded on paper mechanical strength.

Experience has shown that writing with ink and used commercial printing ink handwriting has good durability, while the use of acid ink written word Trace will affect the sheet of paper even corrode some writing may be faded and diffusion phenomena.

Modern usage history writing only a few decades, using modern materials and equipment made in writing on the composition and nature of traditional writing complete different. Thus, when discussing the durability of modern writing, the history of literature research libraries,

archives based on the conclusions reached in the Modern writing is not fully applicable.

Strictly speaking, the only way to test the durability of writing is to literature on related environmental stored for a long period of time, perhaps a few hundred year. But in practice, but had to rely on only a few years to save documents to observe and test results as well as the impact of known factors to evaluate.

Information and Documentation on writing paper, printing and Copy writing durability and durability requirements Test Methods

1 Scope

This standard specifies the long-term preservation in libraries, archives and other environmental documents in the writing, print, copy writing durability and durability requirements and test methods.

This standard applies to.

The writing --- document on paper, printing and writing copy writing;

--- Monochrome and multicolor handwriting.

This standard does not apply to.

--- Save in a poor environment literature writing, such as. flooding, high temperatures, high humidity, and thus lead to microbial growth, radiation (such as light), Serious pollution;

--- Legal documents, priority consideration to the authenticity of the handwriting, such as. banking documents;

--- Involved in photography photo files;

--- Due to a slight change in color will make the information contents of the file are affected. Multicolor writing information content should be retained, but not necessarily to retain all of its artistic quality.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 457 Paper and board - Determination of folding endurance (GB/T 457-2008, ISO 5626:1993, MOD) GB/T 5478 plastic rolling wear test method (GB/T 5478-2008, ISO 9352:1995, IDT) GB/T 7974 paper, board and pulp - Determination of diffuse blue reflectance factor D65 brightness (diffusion/vertical method, outdoor daylight conditions) (GB/T 7974-2013, ISO 2470-2:2008, MOD) GB/T 11186.2 coating color measurement methods - Part 2. Colour measurement (GB/T 11186.2-1989, ISO 7724-2).

1984, eqv)

GB/T 11186.3 coating color measurement method - Part 3. Calculation of color differences (GB/T 11186.3-1989, ISO 7724-3.

1984, eqv)

GB/T 11501 photographic density measurements - Part 3. Spectral conditions (GB/T 11501-2008, ISO 5-3:1995, IDT) GB/T 12823.4 photographic density measurements - Part 4. Geometric conditions for reflection density (GB/T 12823.4-2008, ISO 5-4.

1995, IDT)

GB/T 12914 Paper and board - Determination of tensile strength (GB/T 12914-2008, ISO 1924-1:1992, ISO 1924-2.

1994, MOD)

GB/T 16422.2 Plastics - Methods of exposure to laboratory light sources - Part 2. Xenon arc lamp (GB/T 16422.2-2014, ISO 4892-2:2006, IDT) GB/T 24423 Information and documentation - Paper durability requirements (GB/T 24423-2009, ISO 9706:1994, MOD)