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

GB/T 17934.4-2022

**Graphic technology - Process control for the production of
half-tone colour separations, proof and production prints - Part
4: Publication gravure printing**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

drafted.

This document is part 4 of GB/T 17934 "Printing Technology Mesh Color Separation Plates, Proofs and Process Control of Production Printed Matters"

point. GB/T 17934 has published the following parts.

- Part 1. Parameters and measurement methods;
- Part 2. Lithographic offset printing;
- Part 3. Newsprint coldset offset lithography;
- Part 4. Publishing gravure;
- Part 5. Screen printing;
- Part 6. Flexographic printing;
- Part 7. Proofing process using digital data directly;
- Part 8. Verification print production process using digital data directly.

This document is identical to ISO 12647-4:2014 "Printing Technology Screen Tone Color Separation Plates, Proofs and Process Control of Production Printed Matters"

Part 4. Publishing Gravure.

The following minimal editorial changes have been made to this document.

--- Added the Chinese names of commonly used substrates and their corresponding English abbreviations.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

This document lists the main process parameter values or parameter value groups as defined in ISO 12647-1, and the relevant gravure printing

technical characteristics of the product. Where deemed useful, secondary parameters are also specified.

This document is part 4 of GB/T 17934 "Printing Technology Mesh Color Separation Plates, Proofs and Process Control of Production Printed Matters"

point. GB/T 17934 is intended to consist of eight parts.

- Part 1.Parameters and measurement methods;
- Part 2.Lithographic offset printing;
- Part 3.Newsprint coldset offset lithography;
- Part 4.Publishing gravure;
- Part 5.Screen printing;
- Part 6.Flexographic printing;
- Part 7.Proofing process using digital data directly;
- Part 8.Verification print production process using digital data directly.

The purpose of this section is to.

- List and explain the visual characteristics and related technical characteristics of the mesh proofs produced from the digital data or the production prints required for

Minimum process parameters;

- Give definitions of common terms necessary for process control;
- Describe the measurement method and the requirements for reporting the results.

The purpose of proofing is to visually simulate the visual characteristics of the final print as closely as possible. To visually match a specific

Prints, proofing offline or requiring a different solid color and tone increase than the printing process it simulates, due to factors such as gloss, light scattering

(inside the substrate or colorant), metamerism, and transparency. These differences are likely a consequence of this offline proofing process

The prints, colourants and techniques used are significantly different from those used in gravure printing, in which case the user or supplier should ensure that appropriate

correction method. Another problem is digital offline proofs on opaque, low basis weight printing paper used in publishing gravure.

Match between duplex prints. If deemed necessary, use substrate-based backing measurements instead of black backing for image quality reasons

Proofs of measured color management profiles, there will be unavoidable differences between proofs and prints. This situation needs to be related to

All parties communicate.

Printing technology halftone color separations, proofs and

Process control for producing printed matter

Part 4. Publishing Gravure

1 Scope

This document specifies some process parameters and parameter values for four-color publishing gravure. The selection of these parameters and parameter values is based on the entire

Process, including color separation, plate making, proofing and all stages of printing production.

This document.

--- Directly applicable to gravure publications, including magazines, catalogues and commercial materials;

---It is directly applicable to the halftone tone or continuous tone proofing which indicates the color effect of gravure printing;

--- Comparability is applicable to four-color (printing basic color) gravure packaging printing.

This document is not directly applicable to the relevant digital input data and cylinder engraving data, and/or necessary for the proofing process.

convert.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document.

ISO 8254-1 Measurement of specular gloss of paper and board - Part 1.75° gloss converging beam, TAPPI method (Paper od)

Note. GB/T 8941-2013 Determination of specular gloss of paper and cardboard (ISO 8254-1.2009, ISO 8254-3.2004, MOD)

ISO 12639 Printing Technology Prepress Data Interchange Label Image File Format for Graphic Technology (TIFF/IT) [Graphic

Note. GB/T 22113-2008 Printing Technology Prepress Data Interchange Label Image File Format for Image Technology (TIFF/IT) (ISO 12639.

2004, IDT)

Input data for ISO 12642-2 Printing technology Four-color printing characterization part 2.Extended data set (Graphictech-

ISO 12647-1 Printing technology - Process control for halftone separations, proofs and production prints - Part 1.Parameters and

Note. GB/T 17934.1-2021 Printing Technology Screen Tone Color Separation Plates, Proofs and Process Control of Production Printed Matters Part 1.Parameters and Measurements Method (ISO 12647-1.2013, IDT)

ISO 12647-7 Printing technology - Process control of halftone separations, proofs and production prints - Part 7.Direct use

Note. GB/T 17934.7-2021 Printing Technology Mesh Tone Color Separation Plates, Proofs and Process Control of Production Printed Matters Part 7.Direct Use Data

Proofing process of word data (ISO 12647-7.2016, IDT)