



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

GB/T 41197-2021

**Graphic technology - Communication of graphic paper
properties**

Issued on: December 31, 2021

Implemented on: July 1, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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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 equivalent to ISO 15397:2014 "Communication rules for the characteristics of printing paper in printing technology":

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

1 Scope

This document specifies the relevant characteristics of paper substrates for communication between the paper industry and the printing industry:

This document is suitable for printing in rotogravure, coldset rotogravure, heatset rototflex, sheetfed offset and flexo printing processes:

paper and proofing paper:

In the case of coexistence of multiple printing methods, the preferred method and the relevant ISO standard are specified:

The measurement methods for all paper properties specified in this document are described in other ISO standards:

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

document:

ISO 187 Standard atmosphere for temperature and humidity treatment and testing of paper, board and pulp and its control procedures and steps for the temperature and humidity treatment of specimens (Pa-

per, board and pulps-Standard atmosphere for conditioning and testing and procedure for monitoring

the atmosphere and conditioning of samples)

Note: GB/T 10739-2002 Standard atmospheric conditions for handling and testing of paper, paperboard and pulp samples (ISO 187:1990, EQV)

ISO 534 Determination of thickness, density and specific volume of paperboard (Paper and board-Determination of thickness, den-

sity and specific volume)

Note: GB/T 451:3-2002 Measurement of Thickness of Paper and Board (ISO 534:1988, IDT)

ISO 536 Paper and board - Determination of grammage (Paper and board-Determination of grammage)

Note: GB/T 451:2-2002 Determination of Quantity of Paper and Board (ISO 536:1995, EQV)

ISO 2470-1 Measurement of blue light diffuse reflectance factor for paper, board and pulp Part 1: Indoor daylight conditions (ISO brightness) [Pa-

per, board and pulps-Measurement of diffuse blue reflectance factor-Part 1: Indoor daylight conditions (ISO brightness)]

ISO 2470-2 Measurement of blue light diffuse reflectance factor for paper, board and pulp Part 2: Outdoor daylight conditions (D65 brightness)

[Paper, board and pulps-Measurement of diffuse blue reflectance factor-Part 2: Outdoor daylight conditions (D65 brightness)]

Note: GB/T 7974-2013 Determination of Blue Light Diffuse Reflectance Factor D65 Brightness of Paper, Cardboard and Pulp (Diffuse/Vertical Method, Outdoor Sunlight Conditions) (ISO

2470-2:2008, MOD)

ISO 2471 Paper and board - Determination of opacity (paper backing) by diffuse reflectance method [Paper and board-Determination of

opacity(paperbacking)-Diffusereflectancemethod]

Note: GB/T 1543-2005 Determination of Opacity of Paper and Paperboard (Paper Backing) (Diffuse Reflection Method) (ISO 2471:1998, MOD)

ISO 2493-1 Determination of flexural strength of paper and paperboard - Part 1: Constant deflection rate (Paperandboard-Determi-

nationofbendingresistance-Part 1:Constantrateofdeflection)

ISO 2813 Paints and varnishes Determination of 20°, 60° and 85° specular gloss of paint films containing no metallic pigments (Paintsand

varnishes-Determinationofspecularglossofnon-metalicpaintfilmsat20degrees,60degreesand

85 degrees)

Note: GB/T 9754-2007 Paints and varnishes Determination of 20°, 60° and 85° specular gloss of paint films without metallic pigments (ISO 2813:1994,