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**Paper and board — Determination of
opacity (paper backing) — Diffuse
reflectance method**

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In the event of any doubts arising as to the contents,
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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Technical Association of the Pulp and Paper Industry (JAPAN TAPPI)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS P 8149** : 2000), which has been technically revised.

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Paper and board — Determination of opacity (paper backing) — Diffuse reflectance method

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 2471** : 2008, Edition 4, but has modified some of the technical contents of the said **ISO** so that, in testing the papers and boards containing fluorescent whitening agents, the radiation source is adjusted to the UV content conforming to CIE illuminant C.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1. Scope

This Standard specifies a method for the determination of the opacity (paper backing) of papers and boards by diffuse reflectance.

It can be used to determine the opacity of papers or boards which contain fluorescent whitening agents, provided the UV content of the radiation incident on the test piece has been adjusted to conform to that in the CIE illuminant C using a fluorescent reference standard provided by an ISO/TC 6 authorized laboratory as described in **JIS P 8148**.

This Standard is not applicable to coloured papers or boards which incorporate fluorescent dyes or pigments.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 2471 : 2008 *Paper and board — Determination of opacity (paper backing) — Diffuse reflectance method* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2. Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS P 0001 *Paper, board and pulp — Vocabulary*

JIS P 8110 *Paper and board — Sampling to determine average quality*

JIS P 8148 *Paper, board and pulps — Measurement of diffuse blue reflectance factor — Indoor daylight conditions (ISO brightness)*

NOTE Normative reference in the corresponding International Standard: ISO 2470-1 *Paper, board and pulps — Measurement of diffuse blue*