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**JIS P 8151** : 2004

(JAPAN TAPPI/JSA)

**Paper and board—  
Determination of roughness/  
smoothness (air leak methods)—  
Print-surf method**

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ICS 85.060

Reference number : JIS P 8151 : 2004 (E)

## Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Japan Technical Association of the Pulp and Paper Industry (JAPAN TAPPI)/Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

In order to conform to the International Standard, this Standard has been prepared based on **ISO 8791-4** : 1992 *Paper and board—Determination of roughness/smoothness (air leak methods)—Part 4 : Print-surf method*.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,  
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# Paper and board—Determination of roughness/smoothness (air leak methods)— Print-surf method

**Introduction** This Japanese Industrial Standard has been prepared based on the first edition of **ISO 8791-4** *Paper and board—Determination of roughness/smoothness (air leak methods)—Part 4 : Print-surf method* published in 1992 with some modifications of the technical contents.

Portions underlined with dots are the matters modified from the original International Standard. The list of modifications and their explanations is given in annex 1 (informative).

**1 Scope** This Standard specifies a method of determining the roughness of paper and board using the Print-surf apparatus.

NOTES 1 It is applicable to all printing papers and boards with which it is possible to form a substantially airtight seal against the guard lands of the measuring head.

2 The International Standard corresponding to this Standard is as follows.

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**.

ISO 8791-4 : 1992 *Paper and board—Determination of roughness/smoothness (air leak methods)—Part 4 : Print-surf method* (MOD)

**2 Normative references** The following standards contain provisions which, through reference in this Standard, 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*

NOTE : **ISO 186** : 1994 *Paper and board—Sampling to determine average quality* is equivalent to the said standard.

JIS P 8111 *Paper, board and pulps—Standard atmosphere for conditioning and testing*

NOTE : **ISO 187** : 1990 *Paper, board and pulps—Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples* is equivalent to the said standard.

JIS Z 8401 *Guide to the rounding of numbers*