
**Paper and board — Determination of curl
using a single vertically suspended test
piece**

*Papier et carton — Détermination du tuilage au moyen d'une éprouvette
unique suspendue verticalement*



Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11556 was prepared jointly by Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*.

Annexes B and C form an integral part of this International Standard. Annexes A, D and E are for information only.

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Introduction

The presence of curl in paper and board may be detrimental to its processing, and therefore there is a need for its measurement. Curl can be inherent in the paper when manufactured, or can be developed in the sheet during its use.

Paper and board — Determination of curl using a single vertically suspended test piece

1 Scope

This International Standard defines the terms used in curl measurement and gives a procedure for determining curl using a vertically suspended test piece.

This International Standard may be used to measure any curl when

- the curl formed approximates the arc of a circle;
- the curl is stable enough to remain constant during the time required to cut the test pieces and make the measurement. This primarily includes curl in paper or board as received, or after exposure to a constant climatic condition, such as a test room or print shop.

NOTE 1 The choice of conditioning climate and conditioning time depends on the purpose of the testing.

NOTE 2 For papers coated on one side or gummed-label papers, a period of at least 24 h, after production, should be allowed to permit the paper to stabilize before any curl tests are done.

2 Normative references

The following standards contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 186:1994, *Paper and board — Sampling to determine average quality.*

ISO 187:1990, *Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples.*

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 curl : A deviation from a flat surface. Its measurement has three major components. Its magnitude, the angle of the curl axis in relation to the paper or board's machine direction, and the side towards which the sheet curls.