INTERNATIONAL STANDARD

ISO 14968

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Paper and board — Cut-size office paper — Measurement of curl in a pack of sheets

Papier et carton — Papier en format à usage de bureau — Mesurage du tuilage dans un paquet de feuilles

Reference number
ISO 14968:1999(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 14968 was prepared by Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*.

Annexes A and B of this International Standard are for information only.

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Introduction

Curl in cut-size office papers plays an important part in the performance of these papers in copying processes. Frequently, cut-size papers are used on copier and other printing devices, operating at high speeds. Curl which exists in the ream before the paper enters the imaging process, and curl developed during the imaging process, can affect office paper performance, especially if two-sided printing or collating is involved. Common problems experienced include jamming and misregistration.

The experience used in developing this test method was limited to uncoated papers in the commonly used cut sizes. The technique is basic and could be used with coated papers as well as paperboard to identify the type and magnitude of curl.

The test method identifies the type and degree of curl in a pack of sheets but does not address variations that might be present in individual sheets. The method of ISO 11556 can be used to measure curl in individual sheets.

It should be recognized that the curl occurring after processing in a copier or a printing device may bear no relation to the curl of the paper as received.

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1 Scope

This International Standard specifies a method for the measurement of curl in cut-size office papers. The test method would typically be used in evaluating papers of the type described in ISO 216.

This method is limited to papers with a maximum dimension of 300 mm in both directions.

The measurement may be made on papers as received, after conditioning, or after processing in a copier or printing device.

2 Normative references

The following standards contains provisions which, through reference in the 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*.

ISO 216:—[1)], *Writing paper and certain classes of printed matter — Trimmed sizes — A and B series.*

3 Definitions

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

3.1
curl
deviation from a flat surface which has three major components: magnitude, direction of curl axis and the side towards which the paper curls

1) To be published. (Revision of ISO 216:1975)