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Irish Standard I.S. EN ISO 7263:2011

Corrugating medium - Determination of the flat crush resistance after laboratory fluting (ISO 7263:2011)

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English Version

Corrugating medium - Determination of the flat crush resistance after laboratory fluting (ISO 7263:2011)

Papier cannelure pour carton ondulé - Détermination de la résistance à la compression à plat après cannelage en laboratoire (ISO 7263:2011)

Wellenrohpapier - Bestimmung des Flachstauchwiderstandes an labormäßig gewelltem Wellenpapier (ISO 7263:2011)

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EN ISO 7263:2011 (E)

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Foreword

This document (EN ISO 7263:2011) has been prepared by Technical Committee ISO/TC 6 "Paper, board and pulps" in collaboration with Technical Committee CEN/TC 172 "Pulp, paper and board" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2011, and conflicting national standards shall be withdrawn at the latest by August 2011.

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Corrugating medium — Determination of the flat crush resistance after laboratory fluting

Papier cannelure pour carton ondulé — Détermination de la résistance à la compression à plat après cannelage en laboratoire



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ISO 7263:2011(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.

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ISO 7263 was prepared by Technical Committee ISO/TC 6, *Paper board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*.

This fourth edition cancels and replaces the third edition (ISO 7263:2008), of which it constitutes a minor revision. A misprint in 5.3.1 (8,55 mm) has been corrected and the calculation of the flat crush resistance index has been included in 10.2.

Introduction

The flat crush resistance of laboratory-fluted corrugating medium is regarded as an important property because it is an indication of the potential flat crush resistance of corrugated fibreboard made from that medium. The corrugated medium is fluted by passing it between heated rollers. Two different test procedures are then widely used:

- a) the fluted corrugating medium is compressed immediately after fluting (i.e. 5 s to 8 s after fluting);
- b) the fluted corrugating medium is conditioned for 30 min to 35 min under standard laboratory test conditions before being compressed.

Procedure a) generally gives considerably higher results than those obtained with procedure b). The differences in results are claimed to be caused by

- the lower moisture content (and thus higher stiffness) of the unconditioned fluted corrugating medium, and/or
- the change in flute profile which occurs during the conditioning period.

Since considerable advantages are claimed for both procedures and both are widely used, this International Standard describes both procedures.

A method of determining the flat crush resistance of manufactured corrugated fibreboard is given in ISO 3035^[1].

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