



BSI Standards Publication

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

National foreword

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

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



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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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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*.

Introduction

This International Standard evaluates the ability of corrugating medium to contribute to the compression strength of a corrugated box. It is a procedure for measuring the edgewise compression strength of a laboratory-fluted strip of corrugating 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. 20 s to 25 s after fluting).
- b) The fluted corrugating medium is conditioned for 30 min to 35 min after fluting 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.

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

Test values and failure modes in this approach are expected to be different than those for ring crush method and short span compression test (SCT).

NOTE This test is sometimes referred to as CCT (corrugated crush test) or CFC (corrugated fluted crush test).