

**Leather - Physical and mechanical tests -
Determination of tear load - Part 1: Single
edge tear**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 3377-1:2003 sisaldab Euroopa standardi EN ISO 3377-1:2002 ingliskeelset teksti.

Käesolev dokument on jõustatud 15.04.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 3377-1:2003 consists of the English text of the European standard EN ISO 3377-1:2002.

This document is endorsed on 15.04.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This part of ISO 3377 specifies a method for determining the strength of leather using a single edged tear. The method is sometimes described as a trouser tear. It is applicable to all types of leather

Scope:

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Võtmesõnad:

English version

Leather

Physical and mechanical tests – Determination of tear load

Part 1: Single edge tear

(ISO 3377-1 : 2002)

Cuir – Essais physiques et mécaniques – Détermination de la force de déchirement – Partie 1: Déchirement d'un seul bord (ISO 3377-1 : 2002)

Leder – Physikalische und mechanische Prüfungen – Bestimmung der Weiterreißfestigkeit – Teil 1: Einkantenriss (ISO 3377-1 : 2002)

This European Standard was approved by CEN on 2002-09-09.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

International Standard
ISO 3377-1 : 2002 Leather – Physical and mechanical tests – Determination of tear load – Part 1: Single edge tear

which was prepared by ISO/TC 120 ‘Leather’ of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 289 ‘Leather’, the Secretariat of which is held by UNI, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by June 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 3377-1 : 2002 was approved by CEN as a European Standard without any modification as given above.

Contents

	Page
Foreword.....	2
1 Scope	3
2 Normative references	3
3 Principle	3
4 Apparatus	3
5 Sampling and sample preparation	4
6 Procedure	4
7 Test report	5

1 Scope

This part of ISO 3377 specifies a method for determining the tear strength of leather using a single edged tear. The method is sometimes described as a trouser tear. It is applicable to all types of leather.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2418	<i>Leather - Chemical, physical and mechanical and fastness tests – Sampling location</i>
ISO 2419	<i>Leather - Physical and mechanical tests - Sample preparation and conditioning</i>
ISO 2589	<i>Leather - Physical and mechanical tests - Determination of thickness</i>
ISO 7500-1	<i>Metallic materials – Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Verification and calibration of the force-measuring system</i>

3 Principle

A rectangular test specimen partially slit from one short edge is pulled so that a tear is propagated from the end of the slit. The mean force exerted during separation of the test piece is recorded.

4 Apparatus

4.1 Tensile testing machine, with:

- a force range appropriate to the specimen under test;
- a means of recording the force to an accuracy of at least 2 % as specified by Class 2 of ISO 7500-1;
- a uniform speed of separation of the jaws of 100 mm/min \pm 20 mm/min;
- a means of recording the force - e.g. as an extension curve;
- jaws, minimum width 50 mm \pm 2 mm.

4.2 Thickness gauge, as specified in ISO 2589.

4.3 Press knife, as specified in ISO 2419, capable of cutting a test piece as shown in figure 1 in one operation. All parts of the press knife shall lie in the same plane.