

**Leather - Physical and mechanical tests - Determination  
of tear load - Part 1: Single edge tear (ISO 3377-1:2011)**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 15.12.2011.	Date of Availability of the European standard is 15.12.2011.
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English Version

**Leather - Physical and mechanical tests - Determination of tear load - Part 1: Single edge tear (ISO 3377-1:2011)**

Cuir - Essais physiques et mécaniques - Détermination de la force de déchirement - Partie 1: Déchirement d'un seul bord (ISO 3377-1:2011)

Leder - Physikalische und mechanische Prüfungen - Bestimmung der Weiterreißfestigkeit - Teil 1: Einkantenriss (ISO 3377-1:2011)

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

This document (EN ISO 3377-1:2011) has been prepared by Technical Committee CEN/TC 289 "Leather", the secretariat of which is held by UNI, in collaboration with the International Union of Leather Technologists and Chemists Societies.

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of an identical text or by endorsement, at the latest by June 2012, and conflicting national standards shall be withdrawn at the latest by June 2012.

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# Leather — Physical and mechanical tests — Determination of tear load —

## Part 1: Single edge tear

### 1 Scope

This part of ISO 3377 specifies a method for determining the tear strength of leather using a single edge 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, *Leather — Chemical, physical and mechanical and fastness tests — Sampling location*

ISO 2419, *Leather — Physical and mechanical tests — Sample preparation and conditioning*

ISO 2589, *Leather — Physical and mechanical tests — Determination of thickness*

ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

### 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 of minimum width 50 mm  $\pm$  2 mm.