

## **Testing of welded joints of thermoplastics semi-finished products - Part 1: Bend test**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12814-1:2000 sisaldab Euroopa standardi EN 12814-1:1999 + AC:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 17.03.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12814-1:2000 consists of the English text of the European standard EN 12814-1:1999 + AC:2003.</p> <p>This document is endorsed on 17.03.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This standard specifies the dimensions and the method for sampling and preparing test specimens, together with the conditions for carrying out the bend test. A bend test may be used in conjunction with other test (e.g. tensile, tensile creep, macrographic, ...) to access the performance of butt welded assemblies, made from thermoplastics materials. The result of the test is also influenced by the deformation behaviour of the tested material, the kind of welding process and the geometry of the sample.</p>	<p><b>Scope:</b></p> <p>This standard specifies the dimensions and the method for sampling and preparing test specimens, together with the conditions for carrying out the bend test. A bend test may be used in conjunction with other test (e.g. tensile, tensile creep, macrographic, ...) to access the performance of butt welded assemblies, made from thermoplastics materials. The result of the test is also influenced by the deformation behaviour of the tested material, the kind of welding process and the geometry of the sample.</p>
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**ICS** 25.160.40

**Võtmesõnad:**

ICS 25.160.40

**English version**

**Testing of welded joints of thermoplastics  
semi-finished products**

**Part 1: Bend test**

Essai des assemblages soudés sur  
produits semi-finis thermoplas-  
tiques – Partie 1: Essais de pliage

Prüfen von Schweißverbindungen aus  
thermoplastischen Kunststoffen –  
Teil 1: Biegeversuch

This European Standard was approved by CEN on 1999-09-30.

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 Central Secretariat 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 Central Secretariat 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, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

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

**Central Secretariat: rue de Stassart 36, B-1050 Brussels**

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 May 2000, and conflicting national standards shall be withdrawn at the latest by May 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This standard specifies the dimensions and the method for sampling and preparing test specimens, together with the conditions for carrying out the bend test.

The result of the test is also influenced by the deformation behaviour of the tested material, the kind of welding process and the geometry of the sample.

The test is applicable to plate and tube butt jointed assemblies made from thermoplastic materials filled or unfilled, but not reinforced, irrespective of the welding process used. It is not applicable to assemblies with a wall thickness < 3 mm.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 2768-1	General tolerances - Part 1 : Tolerances for linear and angular dimensions without individual tolerance indications
ISO 2818	Plastics - Preparation of test specimens by machining
ISO 5893	Rubber and plastics test equipment - Tensile, flexural and compression types (constant rate of traverse) - Description

## 3 Terms and definitions

For the purposes of this European Standard, the following definitions apply :