Testing of welded joints of termoplastics semi-finished products - Part 6: Low temperature tensile test

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 12814-6:2000 sisaldab Euroopa standardi EN 12814-6:2000 ingliskeelset teksti. Käesolev dokument on jõustatud 17.07.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 12814-6:2000 consists of the English text of the European standard EN 12814-6:2000. This document is endorsed on 17.07.2000 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 standard specifies the dimensions, the method of sampling and the preparation of the test specimens, also the conditions for performing the low temperature tensile test perpendicular to the weld in order to determine the low temperature welding factor	**Scope:** This standard specifies the dimensions, the method of sampling and the preparation of the test specimens, also the conditions for performing the low temperature tensile test perpendicular to the weld in order to determine the low temperature welding factor

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EUROPEAN STANDARD
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Testing of welded joints of thermoplastics semi-finished products

Part 6: Low temperature tensile test

Essais des assemblages soudés sur produits semi-finis en thermoplastiques – Partie 6: Essai de traction à basse température

Prüfen von Schweißverbindungen aus thermoplastischen Kunsstoffen – Teil 6: Zugversuch bei tiefen Temperaturen

This European Standard was approved by CEN on 1999-11-27.

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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 July 2000, and conflicting national standards shall be withdrawn at the latest by July 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, the method of sampling and the preparation of the test specimens, also the conditions for performing the low temperature tensile test perpendicular to the weld in order to determine the low temperature tensile welding factor.

A low temperature tensile test may be used in conjunction with other tests (e.g. bend, tensile creep, macro, ...) to assess the performance of welded assemblies, made from thermoplastics materials.

The low temperature tensile welding factor and the appearance of the fracture surface provide a guide regarding the ductility of the joint and the quality of the work.

The test is applicable to co-axial or co-planar welded assemblies made from thermoplastics materials filled or unfilled, but not reinforced, irrespective of the welding process used.

The test is not applicable for tubes of nominal diameter less than 20 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 standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 5893: 1993, *Rubber and plastics test equipment - Tensile, flexural and compression types (constant rate of traverse) - Description.*

EN 13100-1, *Non destructive testing of welded joints of thermoplastics semi-finished products – Part 1: Visual examination*