Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 2: Determination of maximum force g the solution soluti to seam rupture using the grab method (ISO 13935-2:2014)



EESTI STANDARDI EESSÕNA

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English Version

Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 2: Determination of maximum force to seam rupture using the grab method (ISO 13935-2:2014)

Textiles - Propriétés de résistance à la traction des coutures d'étoffes et d'articles textiles confectionnés - Partie 2: Détermination de la force maximale avant rupture des coutures par la méthode d'arrachement (Grab test) (ISO 13935-2:2014)

Textilien - Zugversuche an Nähten in textilen Flächengebilden und Konfektionstextilien - Teil 2: Bestimmung der Höchstzugkraft von Nähten mit dem Grab-Zugversuch (ISO 13935-2:2014)

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN ISO 13935-2:2014) has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with Technical Committee CEN/TC 248 "Textiles and textile products" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by October 2014, and conflicting national standards shall be withdrawn at the latest by October 2014.

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Endorsement notice

The text of ISO 13935-2:2014 has been approved by CEN as EN ISO 13935-2:2014 without any modification.

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Introduction

This part of ISO 13935 has been prepared in the context of several test methods for determination of certain mechanical properties of textiles using mainly tensile testing machines, e.g. tensile properties, seam tensile properties, tear properties, seam slippage. The procedure for these standards agrees where appropriate. The results obtained by one of the methods should not be compared with those obtained by the other methods. See Bibliography for informative references.

comp.
ao use the
ad ISO 13934 Where it is intended to compare the seam maximum force values of sewn seams with the fabric maximum force, it is important to use the same type of test, test conditions and test specimens in the tests in this part of ISO 13935 and ISO 13934-2 (see Bibliography).

Textiles — Seam tensile properties of fabrics and made-up textile articles —

Part 2:

Determination of maximum force to seam rupture using the grab method

1 Scope

This part of ISO 13935 specifies methods for the determination of seam maximum force of sewn seams when the force is applied perpendicularly to the seam. This part of ISO 13935 describes the method known as the grab test.

NOTE ISO 13935-1 describes the method known as the strip test. For informative references see the Bibliography.

The method is mainly applicable to woven textile fabrics, including fabrics which exhibit stretch characteristics imparted by the presence of an elastomeric fibre, mechanical or chemical treatment. It may be applicable to fabrics produced by other techniques. It is normally not applicable to geotextiles, nonwovens, coated fabrics, textile-glass woven fabrics and fabrics made from carbon fibres or polyolefin tape yarns (see Bibliography).

The sewn fabrics may be obtained from previously sewn articles or may be prepared from fabric samples, as agreed by the parties interested in the results.

This method is applicable to straight seams only and not to curved seams.

The method is restricted to the use of constant rate of extension (CRE) testing machines.

2 Normative references

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

ISO 139, Textiles — Standard atmospheres for conditioning and testing

ISO7500-1, Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system

ISO 10012, Measurement management systems — Requirements for measurement processes and measuring equipment

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

constant-rate-of-extension (CRE) testing machine

tensile-testing machine provided with one clamp which is stationary and another clamp which moves with a constant speed throughout the test, the entire testing system being virtually free from deflection

[SOURCE: ISO 13934-1:2013]