



NSAI
Standards

Irish Standard
I.S. EN 16653:2015

Rubber or plastics-coated fabrics - Determination of stitch tear resistance (using a needle) - Test method

I.S. EN 16653:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

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EUROPEAN STANDARD

EN 16653

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English Version

Rubber or plastics-coated fabrics - Determination of stitch tear resistance (using a needle) - Test method

Supports textiles revêtus de caoutchouc ou de plastique -
Détermination de la résistance au déchirement au point de
couture (à l'aide d'une aiguille) - Méthode d'essai

Mit Kautschuk oder Kunststoff beschichtete Textilien -
Bestimmung des Stichtausreißwiderstands (unter
Verwendung einer Nadel) - Prüfverfahren

This European Standard was approved by CEN on 7 February 2015.

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Foreword

This document (EN 16653:2015) has been prepared by 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of an identical text or by endorsement, at the latest by September 2015 and conflicting national standards shall be withdrawn at the latest by September 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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EN 16653:2015 (E)**1 Scope**

This European Standard specifies a method for the determination of the resistance of the seams of rubber or plastic-coated fabrics against tearing out a needle perpendicular to the stitching direction. This resistance is characterized by determining the stitch tear force.

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.

EN ISO 2231, *Rubber- or plastics-coated fabrics — Standard atmospheres for conditioning and testing (ISO 2231)*

EN ISO 2286-3, *Rubber- or plastics-coated fabrics — Determination of roll characteristics — Part 3: Method for determination of thickness (ISO 2286-3)*

EN 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 (ISO 7500-1)*

EN ISO 10012, *Measurement management systems — Requirements for measurement processes and measuring equipment (ISO 10012)*

3 Terms and definitions

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

3.1**stitch tear resistance**

resistance to pull a needle from a sample perpendicular to the stitching direction

3.2**stitch tear force**

stitch tear resistance, recorded as the maximum tearing force

3.3**stitch tear strength**

stitch tear force divided by the thickness

4 Test apparatus and materials

The following test apparatus and materials shall be used:

4.1 CRE machine.

Metrological confirmation system of the tensile-testing machine shall be in accordance with EN ISO 10012.

The constant-rate-of-extension (CRE) machine shall have the general characteristics given in 4.1.1 to 4.1.4.

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