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Skodon – Provningsmetod för bestämning av elastiskt skomaterials hårdighet mot upprepad utvidgning – Utmattningshårdighet (ISO 10768:2010)

Footwear – Test method for the determination of the resistance of elastic materials for footwear to repeated extension – Fatigue resistance (ISO 10768:2010)

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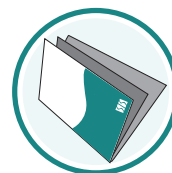
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10768

July 2010

ICS 61.060

English Version

Footwear - Test method for the determination of the resistance of elastic materials for footwear to repeated extension - Fatigue resistance (ISO 10768:2010)

Chaussures - Méthode d'essai pour la détermination de la résistance des élastiques de chaussures à des extensions répétées - Résistance à la fatigue (ISO 10768:2010)

Schuhe - Prüfverfahren zur Bestimmung der Beständigkeit von elastischen Materialien für Schuhe gegen wiederholte Dehnung - Ermüdungsbeständigkeit (ISO 10768:2010)

This European Standard was approved by CEN on 9 June 2010.

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

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Foreword

This document (EN ISO 10768:2010) has been prepared by Technical Committee CEN/TC 309 "Footwear", the secretariat of which is held by AENOR, in collaboration with Technical Committee ISO/TC 216 "Footwear".

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of an identical text or by endorsement, at the latest by January 2011, and conflicting national standards shall be withdrawn at the latest by January 2011.

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Footwear — Test method for the determination of the resistance of elastic materials for footwear to repeated extension — Fatigue resistance

1 Scope

This International Standard specifies a test method for the determination of the resistance of elastic materials for footwear, to repeated extension produced during normal walking. The test can be carried out before and after accelerated ageing. This method is applicable to any elastic material used for footwear.

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 10765, *Footwear — Test method for the characterization of elastic materials — Tensile performance*

ISO 18454, *Footwear — Standard atmospheres for conditioning and testing of footwear and components for footwear*

3 Terms and definitions

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

3.1 elastic

tape, cord or fabric containing rubber or a similar substance allowing it to stretch and return to its original shape

NOTE Generally elastic materials are used in upper construction in the quarters or in the straps to hold the shoe on the foot.

4 Apparatus and materials

4.1 Sewing machine, with a round point needle metric size 90s or 70s, a nylon or polyester thread (approximately tex 17/3) and operating at 6 stitches/cm.

4.2 Repeated extension machine, with a minimum separation of (60 ± 10) mm, a maximum separation that is fully adjustable up to a distance equal to the minimum separation plus 150 mm, a method of applying a simple harmonic reciprocating action to increase the distance between the clamps from the minimum to the maximum separation and back again at a rate of (60 ± 5) cycles per minute and a means of recording the number of cycles.

4.3 Chamber, at (70 ± 2) °C for the accelerated ageing process.

4.4 Steel ruler or callipers.

4.5 Polyurethane (PU) coagulated woven fabric, of thickness of approximately 1 mm.

5 Sampling and conditioning

5.1 Sampling

5.1.1 The dimensions of test pieces are shown in Figure 1.

5.1.2 Cut three test pieces of elastic, measuring (65 ± 5) mm. If accelerated ageing is going to be carried out, cut three more test pieces. The width dimension must be suitable to the dimension of the clamps so that the sample can be clamped properly in the fatigue equipment.

5.1.3 Mark on the test pieces a $(15 \pm 0,5)$ mm line parallel to both ends by means of the steel ruler (4.4).

5.1.4 For each test piece cut four pieces of the coagulated fabric, with the following dimensions:

— length of 30 mm;

— width equal to sample width plus 10 mm (minimum 30 mm).

5.1.5 On each of the square pieces, mark a line that is parallel to the width edge and 5 mm from it (AB, in Figure 1).

5.1.6 Stick a piece of double-sided tape on the uncoated side of one of the coated fabric squares. Place it on the elastic test piece so that the line drawn on the elastic is perfectly aligned with the edge of the square piece where the AB line has been drawn. Turn the sample around and place another coated fabric square on the elastic, now with the coated side facing upwards. The two coated fabric squares should be in line with each other. Press the assembly to ensure that they are bonded. Repeat the process on the other end of the test piece.

5.1.7 Prepare the other two samples in the same way.

5.1.8 Using the sewing machine (4.1), sew the three test pieces at each end, along the AB line.

5.2 Conditioning

Samples and test pieces shall be conditioned for at least 24 h at (23 ± 2) °C and (50 ± 5) % of relative humidity (RH) before testing, in accordance with ISO 18454.