This is a free page sample. Access the full version online.

National Standards Authority of Ireland

IRISH STANDARD

I.S. EN ISO 20864:2050

ICS 61.060

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
http://www.nsai.ie

Sales
http://www.standards.ie

FOOTWEAR - TEST METHODS FOR STIFFENERS AND TOEPUFFS - MECHANICAL CHARACTERISTICS (ISO 20864:2004)

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:

March 4, 2005

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 2050

Price Code I

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 20864

December 2004

ICS 61.060

English version

Footwear - Test methods for stiffeners and toepuffs - Mechanical characteristics (ISO 20864:2004)

Chaussures - Méthodes d'essai des contreforts et des bouts durs - Caractéristiques mécaniques (ISO 20864:2004)

Schuhe - Prüfverfahren für Hinterkappen und Vorderkappen - Mechanische Kenngrößen (ISO 20864:2004)

This European Standard was approved by CEN on 23 August 2004.

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.

This European Standard exists 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

© 2004 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN ISO 20864:2004: E

This is a free page sample. Access the full version online.

Contents

page

Foreword 3
1 Scope 4
2 Normative references 4
3 Terms and definitions 4
4 Apparatus and material 4
4.1 General 4
4.2 Methods 1 and 2 4
4.3 Method 1 (only) 7
4.4 Method 2 (only) 7
4.5 Method 3 7
4.6 All methods 8
5 Sampling and conditioning 12
5.1 Method 1 12
5.2 Method 2 13
5.3 Method 3 14
6 Procedure (all methods) 15
6.1 Shape retention value 15
6.1.1 Dry testing 15
6.1.2 Wet testing 15
6.2 Collapsing load of the test specimen 15
6.2.1 Dry testing 15
6.2.2 Wet testing 16
6.3 Shape retention after ten collapses 16
6.3.1 Dry testing 16
6.3.2 Wet testing 16
7 Expression of results 16
7.1 Shape retention 16
7.2 Collapsing load 17
7.3 Shape retention after ten collapses 17
7.4 Resilience 17
7.5 Moisture resistance 17
8 Test report 17
Annex ZA (normative) Normative references to International publications with their corresponding European publications 18
Bibliography 19

This is a free page sample. Access the full version online.

Foreword

This document (EN ISO 20864:2004) 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 June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

This document includes a Bibliography.

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

This is a free page sample. Access the full version online.

1 Scope

This document specifies three methods for determining the shape retention properties and compression strength of a domed test specimen. These methods are the following and they are applicable to footwear toepuff and stiffener:

Method 1: Applicable to heat activated materials

Method 2: Applicable to solvent activated materials

Method 3: Applicable to non-thermoplastic fibreboard

NOTE Although it is usual to determine both the shape retention properties and the compression strength of a domed test specimen, either can be determined alone by carrying out the procedures relating to the respective property.

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.

EN 12222, *Footwear - Standard atmospheres for conditioning and testing of footwear and components for footwear.*

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 7500-1:2004).*

3 Terms and definitions

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

3.1
shape retention
aptitude of the material to maintain the original shape (dome) after loading the test piece several times

3.2
compression strength
force required to deform the test piece in determined extent

4 Apparatus and material

4.1 General

The following apparatus and material shall be used.

4.2 Methods 1 and 2

4.2.1 A dome forming tool made of a rigid heat and solvent resistant material and consisting of:

4.2.1.1 A dome capped piston of diameter 47,5 mm ± 0,5 mm and dome of curvature radius 35,0 mm ± 0,5 mm. This will produce a dome of height 9,3 mm ± 0,2 mm.

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation