
Tekstilije – Debelina žimnic – Specifikacija in preskusne metode

Textiles - Mattress ticking - Specifications and test methods

Textilien - Matratzendrell - Anforderungen und Prüfverfahren

Textiles - Coutil a matelas - Spécifications et méthodes d'essai

Ta slovenski standard je istoveten z: EN 14976:2005

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EUROPEAN STANDARD
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Textiles - Mattress ticking - Specifications and test methods

Textiles - Coutil à matelas - Spécifications et méthodes
d'essai

Textilien - Matratzendrell - Anforderungen und
Prüfverfahren

This European Standard was approved by CEN on 30 September 2005.

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.

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Requirements	5
5 Additional information	6
6 Marking, labelling, packaging	7
Annex A (informative) Assessment of roll length in a production environment.	8
Annex B (informative) Determination of flexing and bias	9

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Foreword

This European Standard (EN 14976:2005) 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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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.

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EN 14976:2005 (E)

1 Scope

This European Standard specifies properties, test methods (other than flammability) and minimum requirements for ticking (woven, nonwoven or knitted), suitable for covering mattresses, divans and bed bases which are intended for residential (domestic) use, and for use in the public sector and contract markets.

NOTE Some countries have regulations on the fire behaviour of mattresses and mattress components. These regulations should be observed.

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 1773, *Textiles - Fabrics - Determination of width and length*

EN 12127, *Textiles - Fabrics - Determination of mass per unit area using small samples*

EN 25077, *Textiles - Determination of dimensional change in washing and drying (ISO 5077:1984)*

EN ISO 105-B02, *Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02: 1994, including amendment 1:1998)*

EN ISO 105-C08, *Textiles - Tests for colour fastness - Part C08: Colour fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low temperature bleach activator (ISO 105-C08: 2001)*

EN ISO 105-E04, *Textiles - Tests for colour fastness - Part E04: Colour fastness to perspiration (ISO 105-E04: 1994)*

EN ISO 105-X12, *Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing (ISO 105-X12: 2001)*

EN ISO 6330, *Textiles - Domestic washing and drying procedures for textile testing (ISO 6330:2000)*

EN ISO 9073-4, *Textiles - Test methods for nonwovens - Part 4: Determination of tear resistance (ISO 9073-4:1997)*

EN ISO 13934-1, *Textiles - Tensile properties of fabrics - Part 1: Determination of maximum force and elongation at maximum force using the strip method (ISO 13934-1:1999)*

EN ISO 13936-2, *Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (ISO 13936-2:2004)*

EN ISO 13937-2, *Textiles - Tear properties of fabrics - Part 2: Determination of tear force of trouser-shaped test specimens (Single tear method) (ISO 13937-2:2000)*

EN ISO 13938-1, *Textiles - Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (ISO 13938-1:1999)*

3 Terms and definitions

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

3.1

mattress ticking

a primary covering fabric intended to be used on a mattress, divan or bedbase. Such fabric can be woven, knitted or nonwoven (e.g. stitch-bound)

4 Requirements

Mattress ticking fabrics shall meet the requirements specified in this document, when tested in accordance with the corresponding test methods,

Table 1 specifies the required identification parameters which shall be provided by the manufacturer.

Table 2 specifies basic requirements for mattress ticking.

Table 3 lists additional properties that may be claimed for a product and specifies the appropriate requirements for these additional properties.

Table 1 — Identification parameters

Property	Unit	Test method	Tolerances
Overall width of the fabric	cm	EN 1773	-0 % on stated width
Length of the roll	m (expressed to 1 decimal digit)	EN 1773 ¹	<ul style="list-style-type: none"> woven fabrics: ± 1 % on invoiced length knitted fabrics and nonwovens: ± 3 % on invoiced length minimum length of a roll: <ul style="list-style-type: none"> 15 m for fabrics with a linear mass >300 g/m 20 m for fabrics with a linear mass ≤ 300 g/m
Mass per unit area	g/m ²	EN 12127	± 5 % on stated mass per unit area

¹ Annex A (informative) describes an alternative procedure, which may be more suitable for factory production control purposes.

EN 14976:2005 (E)

Table 2 — Mandatory basic requirements

Property	Test method	Requirements
Colour fastness to wet rubbing	EN ISO 105-X12	<ul style="list-style-type: none"> • $\geq 3-4$
Colour fastness to dry rubbing	EN ISO 105-X12	<ul style="list-style-type: none"> • ≥ 4
Colour fastness to perspiration	EN ISO 105-E04	<ul style="list-style-type: none"> • acid $\geq 3-4$ • alkaline $\geq 3-4$
Tear strength	EN ISO 13937-2 (woven fabrics) EN ISO 9073-4 (nonwovens)	<ul style="list-style-type: none"> • woven fabrics: ≥ 15 N • nonwoven fabrics: ≥ 20 N • knitted fabrics: not applicable
Seam slippage	EN ISO 13936-2 (under a load of 60 N for all woven fabrics)	<ul style="list-style-type: none"> • woven fabrics: <ul style="list-style-type: none"> - ≥ 16 picks: maximum 6 mm - < 16 picks: maximum 10 mm • knitted fabrics and nonwovens: not applicable
Tensile strength	EN ISO 13934-1	<ul style="list-style-type: none"> • woven fabrics: ≥ 350 N • knitted fabrics and nonwovens: not applicable
Bursting strength	EN ISO 13938-1 (using a 10 cm ² specimen – 35,7 mm diameter)	<ul style="list-style-type: none"> • applicable to all fabrics other than woven <ul style="list-style-type: none"> - domestic use: ≥ 750 kPa - contract use: ≥ 1000 kPa

Table 3 — Additional requirements²

Property	Test method	Requirements
Dimensional stability	EN 25077 To be determined after a full care cycle in accordance with the manufacturer's care instructions (to be selected from EN ISO 6330) Default values: <ul style="list-style-type: none"> • washing procedure: 3A (60 °C) • drying procedure: C (flat drying) • ironing procedure: according to the composition of the fabric 	<ul style="list-style-type: none"> • Only applicable for fabrics which are promoted as "washable" • Maximum allowed dimensional change: <ul style="list-style-type: none"> - woven fabrics: ± 3 % - nonwovens and knitted fabrics: ± 5 %.
Colour fastness to light	EN ISO 105-B02 (method 2)	<ul style="list-style-type: none"> • ≥ 4
Colour fastness to washing at 60 °C	EN ISO 105-C08	<ul style="list-style-type: none"> • colour change: ≥ 4 • staining: $\geq 3-4$

5 Additional information

The manufacturer shall ensure that information regarding the number of faults and their respective positions in/on the product is provided to the customer.

² For flexing and bias requirements: see Annex B (informative)

6 Marking, labelling, packaging

The producer shall indicate the following items on a separate document (data sheet, swing ticket or invoice):

- reference to this European Standard
- identification of the product
- fibre composition
- length of roll
- mass of roll
- whether the product is washable (optional)
- care instructions (optional)

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