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Möbel - Gängige Prüfeinrichtungen - Prüfschäume und Prüfmatratzen

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European foreword

This document (CEN/TR 17538:2020) has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by UNI.

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Introduction

This document is a non-normative CEN publication which provides guidance information on the most current specifications for common test foams and test mattresses for consideration when developing safety standards for furniture.

This document has been drawn up by a working group of experts set up by CEN/TC 207 with the prime objective of harmonizing the test equipment used when testing furniture.

The information given in these guidelines reflects the state of the art at publication. Standards and regulations will continuously be developed.

How to use this guideline

The recommendations are intended to give guidance and to lead to consistency when writing standards for furniture. It is recommended to use these guidelines when drafting standards.

The recommendations detailed do not constitute an exhaustive set of test equipment that can be applied is to p. to all furniture products. The application to particular products should be evaluated by experts.

1 Scope

This document contains suggested requirements for commonly used test mattresses and test foams specified in test method standards for furniture.

The document contains guidance that may be used by standards developers to ensure test equipment is consistent throughout furniture test standards.

The document contains guidance that may be used by test laboratories to provide a consistent source of test equipment when new standards are developed or older standards are revised.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 ISO 2439, Flexible cellular polymeric materials - Determination of hardness (indentation technique) (ISO 2439)

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

4 Test equipment

4.1 Tolerances

Unless otherwise stated the following tolerances should apply:

- masses: ± 1 % of the nominal mass;
- dimensions: all dimensions less than 300 mm shall have a tolerance of ± 1 mm of the nominal dimension, all other dimensions shall have a tolerance of ± 0.5 % of the nominal dimension.

4.2 Test mattresses

4.2.1 Adult test mattress

4.2.1.1 General

A foam sheet with a thickness of 100 mm, a bulk density of $(35 \pm 5) \text{ kg/m}^3$ and an indentation hardness index of $(170 \pm 40) \text{ N HA}_{(40 \%/30s)}$ in accordance with EN ISO 2439.

The mattress should be at least 700 mm x 700 mm.

The test mattress may have a cover, in which case it should have the following characteristics:

- composition: 100 % cotton;
- mass per unit area: $120 \pm 20 \text{ g/m}^2$;
- cover make up: tight fit, but with no restrictions on the foam.