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Footwear — Test methods for stiffeners and toepuffs — Bondability

Chaussures — Méthodes d'essai pour contreforts et bouts-durs — Aptitude au collage

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Foreword

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This document was prepared by Technical Committee ISO/TC 216, *Footwear*.

This second edition cancels and replaces the first edition (ISO 20863:2004), which has been technically revised.

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Footwear — Test methods for stiffeners and toepuffs — Bondability

1 Scope

This document specifies a method for the determination of the bondability of heat activated and solvent activated stiffeners and toepuffs to upper and lining materials.

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.

ISO 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system*

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.

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
bondability
aptitude of a material to be bonded to itself or to other material by applying pressure and/or heat and eventually adhesive

4 Apparatus and materials

The following apparatus and materials shall be used:

4.1 Tensile testing machine, with a jaw separation rate of 100 mm/min ± 10 mm/min, an appropriate force range (this will usually be less than 100 N), capable of measuring the force to an accuracy of better than 2 % as specified by class 2 in ISO 7500-1, which registers the force applied in terms of the displacement.

4.2 Press knife, or other means of cutting rectangular test specimens of (150 mm ± 10 mm) × (30 mm ± 2 mm).

4.3 Press, with the following characteristics:

4.3.1 Heated plates, which can maintain a pre-established temperature with an accuracy of ±5 °C.

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