INTERNATIONAL STANDARD

Third edition 2018-08

A A Adhesives — Wood-to-wood adhesive bonds — Determination of shear strength by compressive loading

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Reference number ISO 6238:2018(E)



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Published in Switzerland

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

This third edition cancels and replaces the second edition (ISO 6238:2001), of which it constitutes a minor revision.

The changes compared to the previous edition are as follows:

- the references in <u>Clause 2</u> have been updated;
- <u>Clause 3</u> has been inserted and subsequent clauses have been renumbered;
- the document has been editorially revised.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

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Adhesives — Wood-to-wood adhesive bonds — Determination of shear strength by compressive loading

1 Scope

This document specifies a method for determining the shear strength of wood-to-wood adhesive bonds, with a standard specimen loaded in compression and under specified conditions of preparation, conditioning and testing. This method is intended for testing only those adhesives used in bonding wood to wood.

This method is not intended for use in testing manufactured products.

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 291, Plastics — Standard atmospheres for conditioning and testing

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

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:

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

4 Apparatus

4.1 Apparatus for preparation of adhesive

4.1.1 Balance and **other suitable equipment**, capable of measuring the proportions of the adhesive mix to within a tolerance of ±1 %.

4.1.2 Mixing equipment, to ensure homogeneous mixing of the constituents with minimum aeration of the adhesive (except foamed adhesive).

4.1.3 Spreading equipment, such as a wire-wound bar, roller spreader, curtain coater or suitable hand applicators, capable of spreading the adhesive uniformly within ±5 % of the desired spread.

4.1.4 Equipment, designed to exert the required pressure evenly over the whole bonded area within ±5 % of the desired value, for example a **press** or **clamps**. If necessary, **heated platens** capable of maintaining the prescribed temperature within ±2 °C during compression.