



JAPANESE
INDUSTRIAL
STANDARD

JIS K 6852 : 1994

Testing methods for shear strength of adhesive bonds by compression loading

Translation without guarantee
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Translated

by

Japanese Standards Association

1-24, Akasaka 4, Minato-ku Tokyo 107-8440 Japan

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Testing methods for shear strength of adhesive bonds by compression loading

1 Scope This Japanese Industrial Standard specifies the methods for measuring the adhesive strength of adhesive bonds by compression loading.

Remarks 1 The following standards are cited in this Standard :

JIS K 6800 *Glossary of terms used in adhesives and adhesion*

JIS K 6848 *General rules for testing methods of bonding strength of adhesives*

JIS K 6900 *Plastics—Vocabulary*

JIS Z 8703 *Standard atmospheric conditions for testing*

2 The following is the International Standard corresponding to this Standard:

ISO 6238 : 1987 *Adhesives—Wood-to-wood adhesive bonds—Determination of shear strength by compression loading*

3 The units and numerical values given in { } in this Standard are based on the traditional units and are appended for informative reference.

2 Definitions For the purpose of this Standard, the definitions given in **JIS K 6800** and **JIS K 6900** apply.

3 General condition of test

3.1 Standard condition in laboratory The standard condition in laboratory shall be as specified in 3.1 of **JIS K 6848**.

In the case of wood and wooden material, the standard atmospheric temperature condition, class 5 temperature ($20\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$) and the standard atmospheric humidity condition, class 20 [$(65 \pm 20)\%$] specified in **JIS Z 8703** may apply. In this case, the temperature and humidity in laboratory that applied to the test shall be recorded in the test result.

3.2 Conditioning of adhesive bonds and rounding off of test values Conditioning of adhesive bonds and rounding off of test values shall be as specified in 3.2 and 3.3 respectively of **JIS K 6848**.

4 Sampling and handling methods of adhesive bonds Sampling and handling methods of adhesive bonds shall be as specified in 4 of **JIS K 6848**.

5 Testing machine The testing machine shall be of the breaking load equivalent to 15 % to 85 % of the capacity of compression testing machine and the tolerance on it shall be $\pm 1\%$ with respect to the standard loading. The loading speed shall be not more than $9.8\text{ kN}\{1\,000\text{ kgf}\}$ per minute or the travelling speed of the crosshead be adjusted to 0.5 mm to 3.0 mm per minute.