

JIS

JAPANESE INDUSTRIAL STANDARD

Testing methods for impact shear strength of adhesive bonds

JIS K 6855—1994

Translated and Published

by

Japanese Standards Association

Printed in Japan

Licensee=Hong Kong Polytechnic University/9976803100
Not for Resale, 07/29/2014 22:42:42 MDT

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Testing methods for impact shear
strength of adhesive bonds

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1. Scope This Japanese Industrial Standard specifies the testing methods for impact shear strength of adhesive bonds.

Remarks 1. The standards cited in this Standard are listed in the following:

JIS B 7739 Pendulum-type impact testing machines for non-metallic materials

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 [ISO 472: 1988]

JIS Z 8703 Standard atmospheric conditions for testing

2. The International standard corresponding to this Standard is as follows:

ISO 9653: 1991 Adhesives — Test method for shear impact strength of adhesive bonds

2. Definitions The definitions of main terms used in this Standard shall follow those specified in JIS K 6800 and JIS K 6900.

3. General condition for tests

3.1 Standard atmospheric condition in laboratory The standard atmospheric condition in laboratory shall follow 3.1 of JIS K 6848.

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

3.2 Conditioning of adhesive bonds and rounding off of measured values The conditioning of adhesive bonds and rounding off of measured values shall follow respectively 3.2 and 3.3 of JIS K 6848.

4. Sampling method and handling method of adhesive bonds The sampling method and handling method of adhesive bonds shall follow 4. of JIS K 6848.

5. Tester Use an adhesion shear impact testing machine specified in JIS B 7739. The weighing capacity of the tester shall be 2.75 J, 11 J, 30 J and 90 J, and its impact speed shall be 3.5 m/s.