



JAPANESE
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STANDARD

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JIS K 7128-3 : 1998

Plastics — Film and sheeting
— Determination of tear resistance
— Part 3: Right angled tear method

ICS 83.140.10

Descriptors : plastics, materials by form, sheet materials, films (states of matter),
film properties testing, tear tests

Reference number : JIS K 7128-3 : 1998 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

The test method for tear strength is composed of:

Part 1 Trouser tear method,

Part 2 Elmendorf tear method and

Part 3 Right angled tear method.

In this establishment, the conventional testing method which is not specified in International Standards has been applied.

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In the event of any doubts arising as to the contents,
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Plastics—Film and sheeting—Determination of tear resistance—Part 3: Right angled tear method

1 Scope This Japanese Industrial Standard specifies the right angled tear method among the tear resistance test methods for plastic film and sheet.

2 Normative references The normative references to this Standard are as follows.

JIS B 7502 *Micrometer callipers*

JIS B 7503 *Dial gauges*

JIS B 7516 *Metal rules*

JIS K 6900 *Plastics—Vocabulary*

JIS K 7100 *Standard atmospheres for conditioning and testing of plastics*

JIS Z 8401 *Rules for rounding off of numerical values*

JIS Z 9051 *Interval estimation of the population mean (standard deviation unknown)*

3 Principle The force which is needed when tearing is carried out at the right-angled part of the specified test piece, shall be measured.

4 Conditioning of test piece, and temperature and humidity for test

4.1 Conditioning of test piece In principle, carry out the conditioning of test piece, prior to testing, under the second class of standard temperature and second class of standard humidity [$(23 \pm 2)^\circ\text{C}$ temperature and $(50 \pm 5)\%$ relative humidity] specified in **JIS K 7100**, for at least 88 hours (¹).

Note (¹) If it is confirmed that the result obtained after 88 hours or longer conditioning does not show any difference from the result obtained after less than 88 hours, the shortening of conditioning duration can be allowed.

4.2 Temperature and humidity for test In principle, the temperature and humidity for test shall be the same as that in **4.1**, that is, the second class of standard temperature and second class of standard humidity [$(23 \pm 2)^\circ\text{C}$ temperature and $(50 \pm 5)\%$ relative humidity].

5 Measuring device for dimension

5.1 Dial gauge The dial gauge for measurement of thickness of test piece shall be that with 0.001 mm graduation specified in **JIS B 7503**, or the equal or superior to this.

5.2 Micrometer The micrometer for measurement of thickness of hard test piece shall be the outside micrometer (with from 0 mm to 50 mm measurable limit) specified in **JIS B 7502**, or the equal or superior to this.