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**Plastics—Determination of creep  
behaviour—Part 1 : Tensile creep**

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ICS 83.080.01

**Descriptors** : plastics, tensile testing, tensile strength, creep testing

**Reference number** : JIS K 7115 : 1999 (E)

K 7115 : 1999

## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS K 7115 : 1986** is replaced with **JIS K 7115 : 1999**.

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# Plastics— Determination of creep behaviour— Part 1 : Tensile creep

**Introduction** This Japanese Industrial Standard has been prepared based on the first edition of **ISO 899-1** *Plastics—Determination of creep behaviour—Part 1 : Tensile creep*, published in 1993, without any modification in technical contents except Annex 1.

In Annex 1, the test pieces formerly specified in the Japanese Industrial Standard have been specified.

The portions with side lines and underlines with dots are the items not included in the original International Standard.

## 1 Scope

**1.1** This Standard specifies a test method for determining the tensile creep of plastics in the form of standard test specimens under specified conditions such as those of pretreatment, temperature and humidity.

**1.2** The test method is suitable for use with rigid and semi-rigid non-reinforced plastics, filled and fiber-reinforced plastics materials (see **JIS K 6900** : 1994) in the form of dumbbell-shaped test specimens moulded directly or machined from sheets or moulded articles.

**1.3** The test method is intended to provide data for engineering-design and research and development purposes.

**1.4** Tensile creep may vary significantly with differences in specimen preparation and dimensions and in the test environment. The thermal history of the test specimen can also have profound effects on its creep behaviour (see Annex A). Consequently, when precise relative results are required, these factors must be carefully controlled.

**1.5** If tensile-creep properties are to be used for engineering-design purposes, the plastics materials should be tested over a broad range of stresses, times and environmental conditions.

**2 Normative references** The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of coming into effect or the year of publication is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard and the revision and amendment made thereafter are not applied.

JIS K 6900 : 1994 *Plastics—Vocabulary*

Remarks : **ISO 472** : 1988 *Plastics—Vocabulary* is equivalent to the said standard.

JIS K 7161 : 1994 *Plastics—Determination of tensile properties—Part 1 : General principles*

Remarks : **ISO 527-1** : 1993 *Plastics—Determination of tensile properties—Part 1 : General principles* is equivalent to the said standard.