

# INTERNATIONAL STANDARD

# ISO 527-1

First edition  
1993-06-15

**AMENDMENT 1**  
2005-09-01

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## Plastics — Determination of tensile properties —

### Part 1: General principles

#### AMENDMENT 1: Details of extensometer

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*Plastiques — Détermination des propriétés en traction —*

*Partie 1: Principes généraux*

<https://standards.iteh.ai/standards/ISO/527-1/1993/Amd.1/2005>  
AMENDEMENT 1: Détails de l'extensomètre  
6e9b19d10381/iso-527-1-1993-amd-1-2005



Reference number  
ISO 527-1:1993/Amd.1:2005(E)

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Published in Switzerland

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 527-1:1993 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 2, *Mechanical properties*.

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# Plastics — Determination of tensile properties —

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### AMENDMENT 1: Details of extensometer

*Page 2, Clause 2*

Add the following normative reference:

ISO 9513:1999, *Metallic materials — Calibration of extensometers used in uniaxial testing.*

*Page 3, Subclause 5.1.5*

Replace the first paragraph by the following text:

Contact extensometers shall comply with ISO 9513:1999, class 1. The accuracy of this class shall be attained in the strain range over which measurements are being made. Non-contact extensometers may also be used provided they meet the same accuracy requirements.

For the determination of elastic modulus, the instrument shall be capable of measuring the change in the gauge length of the specimen with an accuracy of 1 % of the relevant value or better, corresponding to  $\pm 1 \mu\text{m}$  for a gauge length of 50 mm.

The extensometer shall be capable of determining the change in the gauge length of the test specimen at any time during the test. It is desirable, but not essential, that the instrument should record this change automatically. The instrument shall be essentially free of inertia lag at the specified speed of testing.

Paragraphs 2 and 3 of Subclause 5.1.5 remain unchanged.

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**ICS 83.080.01**

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