January 2010

DIN EN ISO 527-5



ICS 83.120

Supersedes DIN EN ISO 527-5:2009-10

Plastics – Determination of tensile properties – Part 5: Test conditions for unidirectional fibre-reinforced plastic composites (ISO 527-5:2009) English version of DIN EN ISO 527-5:2010-01

Kunststoffe – Bestimmung der Zugeigenschaften – Teil 5: Prüfbedingungen für unidirektional faserverstärkte Kunststoffverbundwerkstoffe (ISO 527-5:2009) Englische Fassung DIN EN ISO 527-5:2010-01

Document comprises 19 pages

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National foreword

This standard has been prepared by Technical Committee ISO/TC 61 "Plastics" (Secretariat: ANSI, USA) in collaboration with Technical Committee CEN/TC 249 "Plastics", (Secretariat: NBN, Belgium).

The responsible German body involved in its preparation was the *Normenausschuss Kunststoffe* (Plastics Standards Committee), Working Committee NA 054-02-02 AA *Rieselfähige Duroplaste und langfaser-verstärkte Kunststoffe.*

The DIN Standards corresponding to the International Standards referred to in clause 2 of this document are as follows. There is no DIN Standard available which corresponds to the International Standard ISO 1268 referred to in the EN.

ISO 527-1	DIN EN ISO 527-1
ISO 527-4	DIN EN ISO 527-4
ISO 2818	DIN EN ISO 2818
ISO 3534-1	DIN ISO 3534-1

DIN EN ISO 527 consists of the following parts, under the general title *Plastics* — *Determination of tensile properties*:

- Part 1: General principles
- Part 2: Test conditions for moulding and extrusion plastics
- Part 3: Test conditions for films and sheets
- Part 4: Test conditions for isotropic and orthotropic fibre-reinforced plastic composites
- Part 5: Test conditions for unidirectional fibre-reinforced plastic composites

Amendments

This standard differs from DIN EN ISO 527-5:1997-07 as follows:

- a) Normative references have been updated.
- b) In subclause 6.1.2, a thickness of 2 mm ± 0,2 mm has been specified for specimens from filamentwound test plates.

Compared with DIN EN ISO 527-5:2010-01, the following corrections have been made to the German version only and therefore do not affect the English text:

- a) Term and definition of 4.3 "tensile stress" have been adapted to the English version.
- b) The term *Dehnung* (tensile strain) in 4.4 and 4.5 has been replaced by *Zugdehnung*.
- c) The key to Figure 3 has been brought in line with the English version.
- d) In A.2 c), second paragraph, the second sentence has been adapted to the English version.
- e) Some editorial modifications have been made.

Previous editions

DIN EN ISO 527-5: 1997-07, 2009-10

National Annex NA (informative)

Bibliography

DIN EN ISO 527-1, Plastics — Determination of tensile properties — Part 1: General principles

DIN EN ISO 527-4, Plastics — Determination of tensile properties — Part 4: Test conditions for isotropic and anisotropic fibre-reinforced plastic composites

DIN EN ISO 2818, Plastics — Preparation of test specimens by machining

DIN ISO 3534-1, Statistics — Vocabulary and symbols — Part 1: General statistical terms and terms used in probability

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