



SLOVENSKI STANDARD
SIST EN ISO 14130:1999

01-maj-1999

Z vlakni ojačeni kompozitni polimerni materiali - Določevanje navidezne medplastne strižne trdnosti z metodo kratkega žarka (ISO 14130:1997)

Fibre-reinforced plastic composites - Determination of apparent interlaminar shear strength by short-beam method (ISO 14130:1997)

Faserverstärkte Kunststoffe - Bestimmung der scheinbaren interlaminaren Scherfestigkeit nach dem Dreipunktverfahren mit kurzem Balken (ISO 14130:1997)

Composites plastiques renforcés de fibres - Détermination de la résistance au cisaillement interlaminaire apparent par essai de flexion sur appuis rapprochés (ISO 14130:1997)

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Ta slovenski standard je istoveten z: EN ISO 14130:1997

ICS:

83.120 Ojačani polimeri Reinforced plastics

SIST EN ISO 14130:1999 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 14130

December 1997

ICS 83.120

Descriptors: see ISO document

English version

Fibre-reinforced plastic composites - Determination of apparent interlaminar shear strength by short-beam method (ISO 14130:1997)

Composites plastiques renforcés de fibres - Détermination de la résistance au cisaillement interlaminaire apparent par essai de flexion sur appuis rapprochés (ISO 14130:1997)

Faserverstärkte Kunststoffe - Bestimmung der scheinbaren interlaminaren Scherfestigkeit nach dem Dreipunktverfahren mit kurzem Balken (ISO 14130:1997)

This European Standard was approved by CEN on 23 November 1997.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN ISO 14130:1997

Foreword

The text of the International Standard ISO 14130:1997 has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 1998, and conflicting national standards shall be withdrawn at the latest by June 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 14130:1997 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 291	1997	Plastics - Standard atmospheres for conditioning and testing	EN ISO 291	1997
ISO 2818	1994	Plastics - Preparation of test specimens by machining	EN ISO 2818	1996

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INTERNATIONAL
STANDARD

ISO
14130

First edition
1997-12-15

**Fibre-reinforced plastic composites —
Determination of apparent interlaminar
shear strength by short-beam method**

*Composites plastiques renforcés de fibres — Détermination de
la résistance au cisaillement interlaminaire apparent par essai de flexion
sur appuis rapprochés*

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Reference number
ISO 14130:1997(E)

ISO 14130:1997(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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International Standard ISO 14130 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 13, *Composites and reinforcement fibres*.

SIST EN ISO 14130:1999

It cancels and replaces International Standard ISO 4585:1989. The main changes are as follows:

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The scope of ISO 4585 has been extended to include all current and future textile-diameter fibre-reinforced plastic composites which fail in the required manner, with an additional requirement for a standard specimen thickness of 2 mm. The 3 mm thick specimen is still available as an alternative using the specimen scaling rules given in 6.1.2, but, although the test span at 15 mm is the same as previously, the width is now 15 mm (cf. 10 mm previously).

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Printed in Switzerland

Fibre-reinforced plastic composites — Determination of apparent interlaminar shear strength by short-beam method

1 Scope

1.1 This International Standard specifies a procedure for determining the apparent interlaminar shear strength of fibre-reinforced plastic composites by the short-beam method.

1.2 The method is suitable for use with fibre-reinforced plastic composites with a thermoset or a thermoplastic matrix, providing interlaminar shear failure is obtained.

NOTE — When using other than laminated materials which are not symmetrical and balanced, the results may be affected by various couplings such as extension/bending, bending/twisting, etc.

1.3 The method is not suitable for the determination of design parameters, but may be used for screening materials, or as a quality-control test.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 291:1997, *Plastics — Standard atmospheres for conditioning and testing*.

ISO 1268:1974, *Plastics — Preparation of glass fibre reinforced, resin bonded, low-pressure laminated plates or panels for test purposes*.¹⁾

ISO 2602:1980, *Statistical interpretation of test results — Estimation of the mean — Confidence interval*.

ISO 2818:1994, *Plastics — Preparation of test specimens by machining*.

ISO 5893:1993, *Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Description*.

¹⁾ Under revision.