



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN ISO 14126:1999

Fibre-reinforced plastic composites - Determination of compressive properties in the in-plane direction (ISO 14126:1999)

Faserverstärkte Kunststoffe -
Bestimmung der Druckeigenschaften in
der Laminebene (ISO 14126:1999)

Composites plastiques renforcés de
fibres - Détermination des
caractéristiques en compression dans le
plan (ISO 14126:1999)

09/1999



National Foreword

This European Standard EN ISO 14126:1999 was adopted as Luxembourgish Standard ILNAS-EN ISO 14126:1999.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

<https://portail-qualite.public.lu/fr/normes-normalisation/participer-normalisation.html>

THIS PUBLICATION IS COPYRIGHT PROTECTED

Nothing from this publication may be reproduced or utilized in any form or by any mean - electronic, mechanical, photocopying or any other data carries without prior permission!

ILNAS-EN ISO 14126:1999

EUROPEAN STANDARD **EN ISO 14126**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1999

ICS 83.120

English version

**Fibre-reinforced plastic composites - Determination of
compressive properties in the in-plane direction (ISO
14126:1999)**

Composites plastiques renforcés de fibres - Détermination
des caractéristiques en compression dans le plan (ISO
14126:1999)

Faserverstärkte Kunststoffe - Bestimmung der
Druckeigenschaften in der Laminebene (ISO 14126:1999)

This European Standard was approved by CEN on 8 August 1999.

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.



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

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

Foreword

The text of the International Standard ISO 14126:1999 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 March 2000, and conflicting national standards shall be withdrawn at the latest by March 2000.

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 14126:1999 was approved by CEN as a European Standard without any modification.

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

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 527-1	1993	Plastics – Determination of tensile properties – Part 1: General principles (including Corr 1:1994)	EN ISO 527-1	1996
ISO 527-4	1997	Plastics – Determination of tensile properties – Part 4: Test conditions for isotropic and orthotropic fibre-reinforced plastic composites	EN ISO 527-4	1997

ILNAS-EN ISO 14126:1999
**INTERNATIONAL
STANDARD**

**ISO
14126**

First edition
1999-09-01

**Fibre-reinforced plastic composites —
Determination of compressive properties in
the in-plane direction**

*Composites plastiques renforcés de fibres — Détermination des
caractéristiques en compression dans le plan*



Reference number
ISO 14126:1999(E)

Contents

1 Scope	1
2 Normative references	2
3 Definitions	2
4 Principle	3
5 Apparatus	3
5.1 Test machine	3
5.1.1 General	3
5.1.2 Speed of testing	4
5.1.3 Indication of load	4
5.2 Strain measurement	4
5.3 Micrometer	4
5.4 Loading fixtures	4
5.4.1 General	4
5.4.2 Method 1: shear loading	4
5.4.3 Method 2: end loading	4
6 Test specimens	4
6.1 Shape and dimensions	4
6.1.1 Type A specimen	4
6.1.2 Type B specimen	5
6.2 Preparation	5
6.2.1 General	5
6.2.2 End-tab material	5
6.2.3 Application of end tabs	5

© ISO 1999

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

6.2.4 Machining the specimens	5
6.3 Checking.....	6
7 Number of test specimens.....	6
8 Conditioning.....	6
9 Procedure	6
10 Expression of results	7
11 Precision.....	8
12 Test report	8
Annex A (normative) Specimen preparation	12
Annex B (informative) Compression fixtures for method 1	14
Annex C (informative) Compression fixtures for method 2	15
Annex D (informative) Euler buckling criteria	17
Bibliography.....	18