



# SLOVENSKI STANDARD SIST EN ISO 1163-2:2000

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Plastics - Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials -  
Part 2: Preparation of test specimens and determination of properties (ISO 1163-2:1995)

Kunststoffe - Weichmacherfreie Polyvinylchlorid (PVC-U)-Formmassen - Teil 2:  
Herstellung von Probekörpern und Bestimmung von Eigenschaften (ISO 1163-2:1995)

Plastiques - Poly(chlorure de vinyle) non plastifié (PVC-U) pour moulage et extrusion -  
Partie 2: Préparation des éprouvettes et détermination des propriétés (ISO 1163-2:1995)

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Ta slovenski standard je istoveten z: EN ISO 1163-2:1999

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## ICS:

83.080.20      Plastomeri      Thermoplastic materials

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 1163-2

July 1999

ICS 83.080.00

English version

Plastics - Unplasticized poly(vinyl chloride) (PVC-U) moulding  
and extrusion materials - Part 2: Preparation of test specimens  
and determination of properties (ISO 1163-2:1995)

Plastiques - Poly(chlorure de vinyle) non plastifié (PVC-U)  
pour moulage et extrusion - Partie 2: Préparation des  
échantillons et détermination des propriétés (ISO 1163-  
2:1995)

Kunststoffe - Weichmacherfreie Polyvinylchlorid (PVC-U)-  
Formmassen - Teil 2: Herstellung von Probekörpern und  
Bestimmung von Eigenschaften (ISO 1163-2:1995)

This European Standard was approved by CEN on 7 June 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

Page 2  
EN ISO 1163-2:1999

## Foreword

The text of the International Standard from Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) has been taken over as an European Standard by 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 January 2000, and conflicting national standards shall be withdrawn at the latest by January 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 1163-2:1995 has been 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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**Annexe ZA (normative)****Références normatives aux publications internationales avec leurs publications européennes correspondantes**

Cette norme européenne comporte par référence datée ou non datée des dispositions d'autres publications. Ces références normatives sont citées aux endroits appropriés dans le texte et les publications sont énumérées ci-après. Pour les références datées les amendements ou révisions ultérieurs de l'une quelconque de ces publications ne s'appliquent à cette norme européenne que s'ils y ont été incorporés par amendement ou révision. Pour les références non datées, la dernière édition de la publication à laquelle il est fait référence s'applique.

<u>Publication</u>	<u>Année</u>	<u>Titre</u>	<u>EN</u>	<u>Année</u>
ISO 62	1999	Plastiques - Détermination de l'absorption d'eau	EN ISO 62	1999
ISO 75-1	1993	Plastiques - Détermination de la température de fléchissement sous charge - Partie 1: Méthode générale d'essai	EN ISO 75-1	1996
ISO 75-2	1993	Plastiques - Détermination de la température de fléchissement sous charge - Partie 2: Plastiques et ébonite	EN ISO 75-2	1996
ISO 178	1993	Plastiques - Détermination des propriétés en flexion	EN ISO 178	1996
ISO 179	1993	Plastiques - Détermination de la résistance au choc Charpy	EN ISO 179	1996
ISO 291	1997	Plastiques - Atmosphères normales de conditionnement et d'essai	EN ISO 291	1997
ISO 306	1994	Plastiques - Matières thermoplastiques - Détermination de la température de ramollissement Vicat (VST)	EN ISO 306	1996
ISO 527-1	1993	Plastiques - Détermination des propriétés en traction - Partie 1: Principes généraux	EN ISO 527-1	1996
ISO 527-2	1993	Plastiques - Détermination des propriétés en traction - Partie 2: Conditions d'essai des plastiques pour moulage et extrusion	EN ISO 527-2	1996
ISO 527-4	1997	Plastiques - Détermination des propriétés en traction - Partie 4: Conditions d'essai pour les composites plastiques renforcés de fibres isotropes et orthotropes	EN ISO 527-4	1997
ISO 899-1	1993	Plastiques - Détermination du comportement au fluage - Partie 1: Fluage en traction	EN ISO 899-1	1996
ISO 2818	1994	Plastiques - Préparation des éprouvettes par usinage	EN ISO 2818	1996
ISO 3167	1993	Plastiques - Eprouvettes à usage multiples	EN ISO 3167	1996

<u>Publication</u>	<u>Année</u>	<u>Titre</u>	<u>EN</u>	<u>Année</u>
ISO 4589-3	1996	Plastiques - Détermination du comportement au feu au moyen de l'indice d'oxygène - Partie 3: Essai à haute température	EN ISO 4589-3	1996
ISO 8256	1990	Plastiques - Détermination de la résistance au choc-traction	EN ISO 8256	1996
ISO 10350	1993	Plastiques - Acquisitions et présentation de caractéristiques intrinsèques comparables	EN ISO 10350	1995

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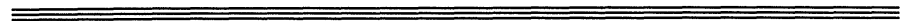
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INTERNATIONAL  
STANDARD

**ISO**  
**1163-2**

Second edition  
1995-08-15



**Plastics — Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials —**

iTeh STANDARD PREVIEW

**Part 2:**

Preparation of test specimens and  
determination of properties

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*Plastiques — Poly(chlorure de vinyle) non plastifié (PVC-U) pour moulage et extrusion —*

*Partie 2: Préparation des éprouvettes et détermination des propriétés*



Reference number  
ISO 1163-2:1995(E)

## ISO 1163-2:1995(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.

International Standard ISO 1163-2 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 1163-2:1980), in which the table of test methods has been revised in accordance with ISO 10350.

ISO 1163 consists of the following parts, under the general title *Plastics — Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials*:

- Part 1: *Designation system and basis for specifications*
- Part 2: *Preparation of test specimens and determination of properties*

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International Organization for Standardization  
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland



# Plastics — Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials —

## Part 2:

## Preparation of test specimens and determination of properties

### 1 Scope

This part of ISO 1163 specifies procedures and conditions for the preparation of test specimens of PVC-U materials in a specified state, and methods for measuring their properties. Any property listed in this part and referred to in combination with part 1 shall be determined by the method referred to in this part.

No figures are quoted for these properties. Those required for the designation of PVC-U thermoplastics are given in part 1 of this International Standard. All properties shall be determined by the appropriate methods referred to in this part of ISO 1163 and values obtained shall be presented as laid down in ISO 10350.

The values determined in accordance with this part of ISO 1163 will not necessarily be identical to those obtained using specimens of different dimensions and/or prepared by different procedures. The values obtained for the properties of a moulding depend on the moulding compound, the shape, the test method and the state of anisotropy. The last-mentioned depends on the gating of the mould and the moulding conditions, for example temperature, pressure and injection rate. Any subsequent treatment must also be considered, for example conditioning or annealing.

The thermal history and the internal stresses of the specimens may strongly influence the thermal and mechanical properties and the resistance to environmental stress cracking, but exert less effect on the

electrical properties, which depend mainly on the chemical composition of the moulding compound.

In order to obtain reproducible test results, the following two conditions shall be met:

- use test specimens with the specified dimensions and conditioning;
- use test procedures as specified in this part of ISO 1163.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 1163. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 1163 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 62:1980, *Plastics — Determination of water absorption*.

ISO 75-1:1993, *Plastics — Determination of temperature of deflection under load — Part 1: General test method*.

ISO 75-2:1993, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite*.