



# SLOVENSKI STANDARD SIST EN ISO 4613-1:2000

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Plastics - Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials - Part 1:  
Designation and specification (ISO 4613-1:1993)

Kunststoffe - Ethylen-Vinylacetat (E/VAC) Formmassen - Teil 1: Bezeichnungssystem  
und Basis für Spezifikationen (ISO 4613-1:1993)

Plastiques - Matériaux a base de copolymere éthylene/acétate de vinyle (E/VAC) pour  
moulage et extrusion - Partie 1: Désignation et spécification (ISO 4613-1:1993)

Ta slovenski standard je istoveten z: EN ISO 4613-1:1999

## ICS:

83.080.20      Plastomeri      Thermoplastic materials

SIST EN ISO 4613-1:2000      en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 4613-1

May 1999

ICS 83.080.20

English version

Plastics - Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials - Part 1: Designation and specification (ISO 4613-1:1993)

Plastiques - Matériaux à base de copolymère  
éthylène/acétate de vinyle (E/VAC) pour moulage et  
extrusion - Partie 1: Désignation et spécification (ISO 4613-  
1:1993)

Kunststoffe - Ethylen-Vinylacetat (E/VAC) Formmassen -  
Teil 1: Bezeichnungssystem und Basis für Spezifikationen  
(ISO 4613-1:1993)

This European Standard was approved by CEN on 16 April 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

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EN ISO 4613-1:1999

## 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 November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

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 4613-1:1993 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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INTERNATIONAL ORGANIZATION  
FOR STANDARDIZATION  
Organisation internationale  
de normalisation

1986-10-12  
1986-10-12

1986-10-12

**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 1043-1	1997	Plastics - Symbols and abbreviated terms - Part 1: Basic polymers and their special characteristics	EN ISO 1043-1	1999
ISO 4613-2	1995	Plastics - Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties	EN ISO 4613-2	1995
ISO 8985	1998	Plastics - Ethylene/vinyl acetate copolymer (EVAC) thermoplastics - Determination of vinyl acetate content	EN ISO 8985	1998
ISO 1133	1997	Plastics - Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics	EN ISO 1133	1999

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INTERNATIONAL  
STANDARD

**ISO**  
**4613-1**

Second edition  
1993-10-01

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**Plastics — Ethylene/vinyl acetate (E/VAC)  
moulding and extrusion materials —**

**Part 1:**

Designation and specification

(standards.iteh.ai)

*Plastiques — Matériaux à base de copolymère éthylène/acétate de vinyle  
(E/VAC) pour moulage et extrusion —  
Partie 1: Désignation et spécification*



Reference number  
ISO 4613-1:1993(E)

## ISO 4613-1:1993(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 4613-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Sub-Committee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 4613-1:1985), which has been brought into accordance with the revised frame text for designation standards.

ISO 4613 consists of the following parts, under the general title *Plastics — Ethylene/vinyl acetate (E|VAC) moulding and extrusion materials*:

- *Part 1: Designation and specification*
- *Part 2: Preparation of test specimens and determination of properties*

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# Plastics — Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials —

## Part 1:

### Designation and specification

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### 1 Scope

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**1.1** This part of ISO 4613 establishes a system of designation for ethylene/vinyl acetate thermoplastic material, which may be used as the basis for specifications.

**1.2** The types of E/VAC plastics are differentiated from each other by a classification system based on appropriate levels of the designatory properties

- a) vinyl acetate content
- b) melt flow rate

and on information about intended application and/or method of processing, important properties, additives, colorants, fillers and reinforcing materials.

**1.3** This part of ISO 4613 is applicable to all ethylene vinyl acetate copolymers containing from 3 % (*m/m*) to 50 % (*m/m*) (approximately 25 % molar) of vinyl acetate.

It applies to materials ready for normal use in the form of powder, granules or pellets and to materials unmodified or modified by colorants, additives, fillers, etc.

**1.4** It is not intended to imply that materials having the same designation give necessarily the same performance. This part of ISO 4613 does not provide engineering data, performance data or data on processing conditions which may be required to specify a material for a particular application and/or method of processing.

If such additional properties are required, they shall be determined in accordance with the test methods specified in ISO 4613-2, if suitable.

**1.5** In order to specify a thermoplastic material for a particular application or to ensure reproducible processing, additional requirements may be given in data block 5 (see clause 3, introductory paragraph).