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Plastics - Poly(vinyl alcohol) (PVAL) materials - Part 1: Designation system and basis for specifications (ISO 15023-1:2001)

Kunststoffe - Polyvinylalkohol (PVAL)-Formmassen - Teil 1: Bezeichnungssystem und Basis für Spezifikationen (ISO 15023-1:2001)

Plastiques - Matériaux en poly(alcool de vinyle) (PVAL) - Partie 1: Systeme de désignation et base de spécifications (ISO 15023-1:2001)

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English Version

Plastics - Poly(vinyl alcohol) (PVAL) materials - Part 1:
Designation system and basis for specifications (ISO 15023-
1:2001)

Plastiques - Matériaux en poly(alcool de vinyle) (PVAL) -
Partie 1: Système de désignation et base de spécifications
(ISO 15023-1:2001)

Kunststoffe - Polyvinylalkohol (PVAL)-Formmassen - Teil 1:
Bezeichnungssystem und Basis für Spezifikationen (ISO
15023-1:2001)

This European Standard was approved by CEN on 16 March 2006.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

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Foreword

The text of ISO 15023-1:2001 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 15023-1:2006 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 October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

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

Endorsement notice

The text of ISO 15023-1:2001 has been approved by CEN as EN ISO 15023-1:2006 without any modifications.

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**Plastics — Poly(vinyl alcohol) (PVAL)
materials —**

**Part 1:
Designation system and basis for
specifications**

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Plastiques — Matériaux en poly(alcool de vinyle) (PVAL) —

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Partie 1: Système de désignation et base de spécifications

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this part of ISO 15023 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 15023-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

ISO 15023 consists of the following parts, under the general title *Plastics — Poly(vinyl alcohol) (PVAL) materials*:

- *Part 1: Designation system and basis for specifications*
- *Part 2: Determination of properties*

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Plastics — Poly(vinyl alcohol) (PVAL) materials —

Part 1:

Designation system and basis for specifications

1 Scope

1.1 This part of ISO 15023 establishes a system of designation for poly(vinyl alcohol) (PVAL) materials which may be used as the basis for specifications.

1.2 The types of poly(vinyl alcohol) (PVAL) materials are differentiated from each other by a classification system based on the designatory properties:

- a) degree of hydrolysis
- b) viscosity of aqueous solution under defined conditions

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

1.3 This part of ISO 15023 is applicable to poly(vinyl alcohol) (PVAL) materials with a degree of hydrolysis not less than 70 mol%.

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 15023 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 described in ISO 15023-2, as appropriate.

1.5 In order to specify a material for a particular application or to ensure reproducible processing, additional requirements may be given in data block 5 (see 3.1).

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 15023. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 15023 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1043-1:—¹⁾, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics*

ISO 15023-2:—²⁾, *Plastics — Poly(vinyl alcohol) (PVAL) materials — Part 2: Determination of properties*

1) To be published. (Revision of ISO 1043-1:1997)

2) To be published.