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

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

*Plastiques — Matériaux en poly(alcool de vinyle) (PVAL) —
Partie 1: Système de désignation et base de spécifications*

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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 15023-1:2001), which has been technically revised.

A list of all parts in the ISO 15023 series can be found on the ISO website.

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

Part 1:

Designation system and basis for specifications

1 Scope

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

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.

This document is applicable to all 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.

It is not intended to imply that materials having the same designation give necessarily the same performance. This document does not provide engineering data, performance data or data on processing conditions which may be required to specify a material. If such additional properties are required, they are intended to be determined in accordance with the test methods specified in ISO 15023-2, if suitable.

In order to designate a thermoplastic material to meet particular specifications, the requirements are given in data block 5 (see [4.1](#)).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 472, *Plastics — Vocabulary*

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

ISO 15023-2:—¹⁾, *Plastics — Poly(vinyl alcohol) (PVAL) materials — Part 2: Determination of properties*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 472 apply.

1) Under preparation. Stage at the time of publication: ISO/DIS 15023-2:2016.