



SLOVENSKI STANDARD
SIST EN 61068-1:1998

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Specification for polyester fibre woven tapes - Part 1: Definitions, designation and general requirements (IEC 61068-1:1991)

Specification for polyester fibre woven tapes -- Part 1: Definitions, designation and general requirements

Bestimmung für gewebte Bänder aus Polyesterfilamenten -- Teil 1: Definitionen, Bezeichnung und allgemeine Anforderungen

Spécification pour rubans tissés en fibres de polyester -- Partie 1: Définitions, désignation et prescriptions générales

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Ta slovenski standard je istoveten z: EN 61068-1:1997

ICS:

29.035.20 Plastični in gumeni izolacijski materiali Plastics and rubber insulating materials

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en

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ICS 29.035.20

Descriptors: Electrical insulating materials, solid electrical insulating materials, tapes, weaving, polyester fibres, definitions, designation, dimensions, marking

English version

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Spécification pour rubans tissés en
fibres de polyester
Partie 1: Définitions, désignation et
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Bestimmung für gewebte Bänder aus
Polyesterfilamenten
Teil 1: Definitionen, Bezeichnung und
allgemeine Anforderungen
(IEC 61068-1:1991)

This European Standard was approved by CENELEC on 1997-07-01. CENELEC 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 CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 61068-1:1991, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the formal vote and was approved by CENELEC as EN 61068-1 on 1997-07-01 without any modification.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1998-06-01

Endorsement notice

The text of the International Standard IEC 61068-1:1991 was approved by CENELEC as a European Standard without any modification.

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61068-1

Première édition
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Spécification pour rubans tissés en fibres de polyester

Partie 1:

Définitions, désignation et prescriptions générales

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Definitions, designation and general requirements

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SPECIFICATION FOR POLYESTER FIBRE WOVEN TAPES

Part 1: Definitions, designation and general requirements

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

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This part of International Standard IEC 1068 has been prepared by Sub-Committee 15C: Specifications, of IEC Technical Committee No. 15: Insulating materials.

The text of this part is based on the following documents:

Six Months' Rule	Report on Voting
15C(CO)233	15C(CO)247

Full information on the voting for the approval of this part can be found in the Voting Report indicated in the above table.

SPECIFICATION FOR POLYESTER FIBRE WOVEN TAPES

Part 1: Definitions, designation and general requirements

1 Scope

This part of IEC 1068 specifies requirements for tapes woven on shuttleless looms for continuous filament polyester fibres.

Nominal thicknesses of 0,13 mm to 0,25 mm and nominal widths of 15 mm, 20 mm and 25 mm are covered. The standard combinations of nominal thickness and nominal width are specified and an additional designation is included for tapes which, whilst complying with the majority of the requirements of this part, are supplied with non-standard widths.

This part gives definitions, a designation and general requirements.

Other parts of IEC 1068 are:

- Part 2: Methods of test.
- Part 3: Specifications for individual materials.

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2 Definitions

[SIST EN 61068-1:1998](https://standards.iteh.ai/catalog/standards/sist/d55d8eaf-77a2-41c7-9983-c019c9ac54e/sist-en-61068-1-1998)

For the purpose of this part, the following definitions apply:

- 2.1 **pick**: Weft thread or group of threads inserted in a fabric by one traverse of the picking mechanism between two consecutive beat-ups.
- 2.2 **end**: Individual warp thread.
- 2.3 **filament**: A single, very long fibre.
- 2.4 **locking thread**: Independent thread used to lock the weft threads.
- 2.5 **shuttleless loom**: Loom in which the weft is inserted by means other than a shuttle and is drawn from a stationary supply.
- 2.6 **plain weave**: Simplest of all weave interlacing in which the odd warp threads pass over one and under one weft pick throughout the fabric with the even warp thread reversing this order to under one, over one.
- 2.7 **heat set yarn**: Yarn which has been heat treated so that subsequent shrinkage is reduced.
- 2.8 **central value**: Middle value of an odd number of test measurements or the means of the two middle values of an even number of test measurements when these measurements are arranged in order of magnitude.

NOTE - The central value is also known as the median.

3 Designation

Tapes shall be designated in two types as defined below:

Type 1 - Tapes woven from polyester yarn so as to produce a tape with high shrinkage.

Type 2 - Tapes woven with heat set polyester yarn so as to produce a tape with low shrinkage.

4 General requirements

4.1 Construction

The yarns used shall be continuous filament polyethylene terephthalate (PETP) and for type 2 shall be heat set.

The tapes shall be plain weave.

The picks shall be interlocked at or near the selvedge opposite the one from which the weft is inserted thus preventing unravelling of the selvedge during use.

If a locking thread is used, the method of interlacing shall be such that the thread cannot be pulled out of the body of the tape.

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Tapes shall be identified according to type as follows:

Type 1 - A single black warp thread positioned so as to indicate the centre line of the tape.

Type 2 - A single black warp thread positioned so as to indicate the centre line of the tape with two orange threads well offset one on each side of the black thread.

4.2 Thickness

The nominal thickness measured between the selvages of a tape shall be one of the values as given in table 1, and the thickness as determined by the method given in 2.3 of IEC 1068-2 shall not fall outside the limits given in table 1.

The thickness, when measured at the selvages, shall not exceed the thickness between the selvages by more than 0,03 mm.

Table 1 - Thickness

Nominal mm	Minimum mm	Maximum mm
0,13	0,12	0,17
0,20	0,17	0,22
0,25	0,22	0,27

4.3 Width

The nominal widths of tapes complying fully with the requirements of this part are given in table 2.

Table 2 - Nominal width

Type	Nominal thickness mm	Nominal width mm
1	0,13	15 - 25
2	0,13	15 - 20 - 25
2	0,20	15 - 20 - 25
2	0,25	15 - 25

The width as determined in accordance with the method given in 3.4 of Part 2 shall not differ from that specified by more than $\pm 1,0$ mm.

4.4 Requirements for rolls

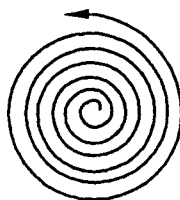
The tapes shall be wound on a hard tubular core with sufficient tension to form a compact roll but without deforming the structure of the tape. The internal diameter of the core shall be not less than 10 mm and not more than 13 mm and its width shall be approximately the same as the width of the tape but shall not exceed it.

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An alternative internal core having a diameter of 55 mm is also permitted.

NOTE - The length of tape in a roll is not a requirement of this part but it is normally 50 m.

For types 1 and 2 the tapes shall be wound in an anti-clockwise spiral when the roll is viewed from the locking thread as shown in figure 1.



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Figure 1 - View of roll from locking thread side

The number of joins per roll shall not exceed two and none of the lengths in a roll shall be shorter than 10 m.

In any consignment, not more than 10 % of rolls shall have any join.