



SLOVENSKI STANDARD

SIST EN ISO 4612:2000

01-maj-2000

Polimerni materiali - Priprava preskusnih PVC past - Metoda z mešalnikom (planetary mixer) (ISO 4612:1999)

Plastics - Preparation of PVC pastes for test purposes - Planetary-mixer method (ISO 4612:1999)

Kunststoffe - Herstellung von PVC-Pasten für Prüfzwecke - Planetenmischeverfahren
(ISO 4612:1999)

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Plastiques - Préparation des pâtes PVC pour essais - Méthodes utilisant un mélangeur
planétaire (ISO 4612:1999)

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Ta slovenski standard je istoveten z: EN ISO 4612:1999

ICS:

83.080.01	Polimerni materiali na splošno	Plastics in general
83.080.20	Plastomeri	Thermoplastic materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4612

August 1999

ICS 83.080.00

English version

Plastics - Preparation of PVC pastes for test purposes -
Planetary-mixer method (ISO 4612:1999)

Plastiques - Préparation des pâtes PVC pour essais -
Méthodes utilisant un mélangeur planétaire (ISO
4612:1999)

Kunststoffe - Herstellung von PVC-Pasten für Prüfzwecke -
Planetenmischerverfahren (ISO 4612:1999)

This European Standard was approved by CEN on 23 July 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.

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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 4612:1999

Foreword

The text of the International Standard ISO 4612:1999 has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with 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 February 2000, and conflicting national standards shall be withdrawn at the latest by February 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 4612:1999 was 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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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 291	1997	Plastics - Standard atmospheres for conditioning and testing	EN ISO 291	1997

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INTERNATIONAL STANDARD

ISO
4612

Second edition
1999-08-15

Plastics — Preparation of PVC pastes for test purposes — Planetary-mixer method

*Plastiques — Préparation des pâtes PVC pour essais — Méthode utilisant
un mélangeur planétaire*

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Reference number
ISO 4612:1999(E)

ISO 4612:1999(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.

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.

International Standard ISO 4612 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 4612:1979), which has been modified to make it suitable for the preparation of pastes of various compositions and to include different types of planetary mixer.

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Plastics — Preparation of PVC pastes for test purposes — Planetary-mixer method

1 Scope

This International Standard specifies two methods, A and B, for the preparation of pastes (also known as plastisols) from appropriate PVC resins, plasticizers and other ingredients using a planetary mixing process.

Both method A and method B can be used to prepare pastes of any composition. Method A (single-speed) is particularly applicable to resins prone to heat build-up during paste preparation, while method B (two-speed) might be preferred for repetitive work, e.g. for process control during resin manufacture, because of its shorter mixing time.

Such pastes may be used for a variety of test purposes, including the determination of rheological properties for resin designation and specification.

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2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments or revisions apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document 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 291:1997, *Plastics — Standard atmospheres for conditioning and testing*.

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1

paste

plastisol

a homogeneous dispersion of PVC resin in an organic liquid

3.2

planetary mixer

a mixer in which the beater or stirrer not only rotates about an axis within the mixing vessel, but the axis of rotation itself also describes a circular path

4 Principle

Liquid plasticizer, PVC resin powder and other appropriate ingredients, in liquid, paste or powder form, are combined in a mixer where the shearing action causes the powder(s) to disperse in the liquid(s).

The paste-making process involves the partial solvation of the resin powder by the plasticizer, and hence the "dispersion" will remain in liquid form for prolonged periods, i.e. the powder does not readily settle out.