



SLOVENSKI STANDARD
SIST EN ISO 4610:2002

01-september-2002

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SIST EN ISO 4610:2000

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Plastics - Vinyl chloride homopolymer and copolymer resins - Sieve analysis using air-jet sieve apparatus (ISO 4610:2001)

Kunststoffe - Vinylchlorid-Homo- und Copolymerisate - Siebanalyse mit der Luftstrahl-Siebmaschine (ISO 4610:2001)
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Plastiques - Résines d'homopolymères et copolymères de chlorure de vinyle - Analyse granulométrique sur tamiseuse à dépression d'air (ISO 4610:2001)
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Ta slovenski standard je istoveten z: EN ISO 4610:2001

ICS:

83.080.20 Plastomeri Thermoplastic materials

SIST EN ISO 4610:2002 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4610

October 2001

ICS 83.080.20

Supersedes EN ISO 4610:1997

English version

**Plastics - Vinyl chloride homopolymer and copolymer resins -
Sieve analysis using air-jet sieve apparatus (ISO 4610:2001)**

Plastiques - Résines d'homopolymères et copolymères de
chlorure de vinyle - Analyse granulométrique sur tamiseuse
à dépression d'air (ISO 4610:2001)

Kunststoffe - Vinylchlorid-Homo- und Copolymerisate -
Siebanalyse mit der Luftstrahl-Siebmaschine (ISO
4610:2001)

This European Standard was approved by CEN on 4 October 2001.

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 Management Centre 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 Management Centre 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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 4610:2001 (E)

CORRECTED 2002-02-06

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 a European Standard by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

This document supersedes EN ISO 4610:1997.

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 April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

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.

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Endorsement notice

The text of the International Standard ISO 4610:2001 has been approved by CEN as a European Standard without any modifications.

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INTERNATIONAL STANDARD

ISO 4610

Second edition
2001-10-15

Corrected version
2007-02-01

Plastics — Vinyl chloride homopolymer and copolymer resins — Sieve analysis using air-jet sieve apparatus

*Plastiques — Résines d'homopolymères et copolymères de chlorure de
vinyle — Analyse granulométrique sur tamiseuse à dépression d'air*

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Reference number
ISO 4610:2001(E)

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Printed in Switzerland

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ISO 4610:2001(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.

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

International Standard ISO 4610 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 4610:1977), which has been modified as follows:

- emulsion-polymerized PVC has been included in the scope;
- a second obligatory measurement has been included;
- a precision statement, based on current test data, has been included.

In this corrected version of ISO 4610:2001, the URL in Clause 9 has been replaced by a more user-friendly one.

Plastics — Vinyl chloride homopolymer and copolymer resins — Sieve analysis using air-jet sieve apparatus

1 Scope

This International Standard specifies a method for the determination of the sieve retention and particle size distribution of preferably free-flowing vinyl chloride homopolymer and copolymer resins prepared by the “suspension”, “bulk” and “emulsion” polymerization processes. Control of these characteristics can help to ensure consistency of supply and predictable processing behaviour.

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 to, or revisions of, any of these publications do not 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 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*

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3 Term and definition

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For the purposes of this International Standard, the following term and definition applies.

3.1

sieve retention

the percentage of the mass of resin remaining on the sieve after the test

4 Sampling

Take a sample which is representative of the resin as delivered and of sufficient size to permit the determination of the size distribution.

Generally, 25 g shall be used for each sieve analysis. For fine-particle resins, which for the purpose of this International Standard are defined as between 80 μm and 100 μm , smaller quantities are more convenient, for example 10 g.

5 Sample preparation

Unless otherwise agreed, analyse the sample as received (i.e. as delivered).

If the sample is not analysed on the day of receipt, it shall be kept in a sealed container under ambient conditions.

To prevent difficulty in sieving caused by electrostatic charging of the resin, add an antistatic agent, for example 0,5 % by mass of γ -alumina, unless otherwise specified, to the resin at the start of the analysis.