



SLOVENSKI STANDARD
SIST EN ISO 1265:2000

01-maj-2000

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Plastics - Polyvinyl chloride resins - Determination of number of impurities and foreign particles (ISO 1265:1979)

Kunststoffe - Vinylchlorid-Polymerisate - Bestimmung der Anzahl von Verunreinigungen und Fremdpartikeln (ISO 1265:1979)

Plastiques - Résines de polychlorure de vinyle - Détermination du nombre d'impuretés et corps étrangers (ISO 1265:1979)

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Ta slovenski standard je istoveten z: EN ISO 1265:1997

ICS:

83.080.20 Plastomeri Thermoplastic materials

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EUROPEAN STANDARD

EN ISO 1265

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1997

ICS 83.080.20

Descriptors: see ISO document

English version

**Plastics - Polyvinyl chloride resins - Determination
of number of impurities and foreign particles
(ISO 1265:1979)**

Plastiques - Résines de polychlorure de vinyle
- Détermination du nombre d'impuretés et corps
étrangers (ISO 1265:1979)

Kunststoffe - Vinylchlorid-Polymerisate -
Bestimmung der Anzahl von Verunreinigungen und
Fremdpartikeln (ISO 1265:1979)

This European Standard was approved by CEN on 1997-06-13. 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.

The European Standards exist 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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CEN

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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 an European Standard 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 month of January 1998, and conflicting national standards shall be withdrawn at the latest by January 1998.

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 1265:1979 has been approved by CEN as a European Standard without any modification.

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International Standard



1265

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Plastics — Polyvinyl chloride resins — Determination of number of impurities and foreign particles

Plastiques — Résines de polychlorure de vinyle — Détermination du nombre d'impuretés et corps étrangers

First edition — 1979-07-15

Corrected and reprinted — 1979-08-15

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UDC 678.743.22 : 620.1

Ref. No. ISO 1265-1979 (E)

Descriptors : plastics, resins, counting, impurities.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 1265 was developed by Technical Committee ISO/TC 61, *Plastics*.

It was submitted directly to the ISO Council in accordance with clause 6.13.1 of the Directives for the technical work of ISO. It cancels and replaces ISO Recommendation R 1265-1970, which had been approved by the member bodies of the following countries :

Australia	Hungary	Poland
Austria	India	Romania
Belgium	Iran	South Africa, Rep. of
Bulgaria	Israel	Spain
Canada	Italy	Sweden
Czechoslovakia	Japan	Switzerland
Egypt, Arab Rep. of	Korea, Dem P. Rep. of	Turkey
France	Korea, Rep. of	United Kingdom
Germany, F. R.	Netherlands	USA
Greece	New Zealand	Yugoslavia

No member body had expressed disapproval of the document.

Plastics — Polyvinyl chloride resins — Determination of number of impurities and foreign particles

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method of determining the number of impurities and foreign particles in a flattened surface of polyvinyl chloride resin. It is not applicable to paste resins because of their finely divided state.

2 PRINCIPLE

Flattening of a certain quantity of resin between a rigid plate (covered with a sheet of glazed white paper) and a glass sheet containing a grid, and counting of the impurities and foreign particles visible in 25 squares.

Expression of the result by extrapolation, as the number of specks per 100 squares of the grid.

3 APPARATUS

3.1 Glass sheet, 340 mm × 340 mm × 4,5 mm, colourless, perfectly transparent, and without defects such as stripes, bubbles, black spots, etc.¹⁾

In the centre and on the surface of the glass sheet is a grid 300 mm × 300 mm consisting of 100 squares of 30 mm × 30 mm. This grid may be drawn with an indelible pencil, a diamond or any other appropriate tool, on the face of the sheet which is not in contact with the resin.

3.2 Rigid plate, 450 mm × 450 mm, covered with a sheet of glazed white paper.

3.3 Photographic scale of reference (see figure 2).

4 PROCEDURE

On the rigid plate (3.2), spread out about 200 cm³ of resin for examination.

Place the glass sheet (3.1) on the resin and, by slight movements of the sheet, spread the resin so that it touches the glass at least over an area of 25 squares, preferably in the centre of the plate.

To avoid any mistake, mark the limits of the entire

25 selected squares with a thick pencil trace (see figure 1). Count inside these 25 squares, the number, n_1 , of black or coloured particles which have a diameter equal to or greater than 0,250 mm. It is these particles which are called impurities or foreign matter.

To do this, proceed as follows :

- carry out the counting by visual examination at a distance of about 300 mm, in good lighting conditions;
- use the photographic scale of reference (3.3) to determine by comparison the size of coloured and black particles to be used for the measurement.

NOTE — To minimize fatigue of the operator's eyes, the operator should be trained to carry out the determination in a maximum time of 2 min.

Carry out a second determination.

5 EXPRESSION OF RESULTS

The average number of specks per 100 squares of the grid is given by the formula

$$4 \left(\frac{n_1 + n_2}{2} \right) = 2 (n_1 + n_2)$$

where

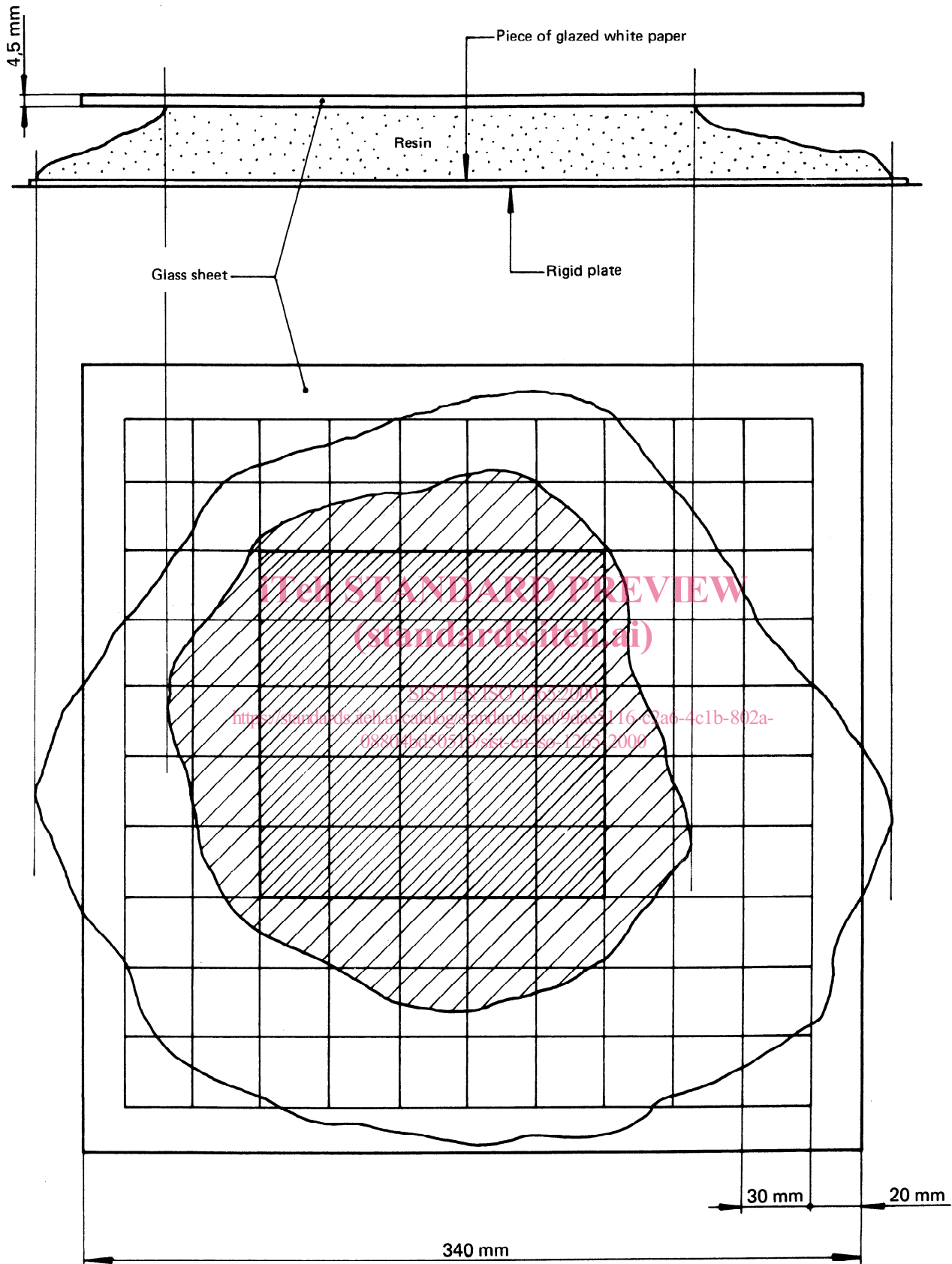
- n_1 is the value obtained in the first determination;
- n_2 is the value obtained in the second determination.

6 TEST REPORT

The test report shall include the following information :

- a) complete identification of the product tested;
- b) a reference to this International Standard;
- c) the result, expressed according to clause 5;
- d) any unusual features noted during the determination;
- e) any operation not included in this International Standard, or regarded as optional;
- f) date of test.

1) In the case of defects in the sheet, take this into account during the determination.



In broad hatching : The area of contact between the glass plate and the resin.

In close hatching : The group of 25 squares chosen for the count.

FIGURE 1 – Illustration of the method of spreading of the resin for counting of impurities and foreign particles