### International Standard



585

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION●MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ●ORGANISATION INTERNATIONALE DE NORMALISATION

## Plastics — Non-plasticized cellulose acetate — Determination of moisture content

Plastiques - Acétate de cellulose non plastifié - Détermination de l'humidité

First edition - 1982-02-01 Teh STANDARD PREVIEW (standards.iteh.ai)

Descripteurs: plastics, unplasticized cellulose acetate, determination of content, humidity.

ISO 585:1982 https://standards.iteh.ai/catalog/standards/sist/5dc240fa-4eff-4c0d-9d48-ebfb2d0675eb/iso-585-1982

#### **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 585 was developed by Technical Committee ISO/TC 61, VIEW Plastics. (standards.iteh.ai)

It was submitted directly to the ISO Council, in accordance with clause 5.10.1 of part 1 of the Directives for the technical work of ISO. It cancels and replaces ISO Recommendation R 585-1967, which had been approved by the member bodies of the following 4-4eff-4c0d-9d48-countries:

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Argentina Hungary
Australia India
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Canada Japan
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Czechoslovakia Korea, Rep. of Egypt, Arab Rep. of Morocco

Finland Netherlands
France New Zealand
Germany, F. R. Poland

South Africa, Rep. of

Romania Spain Sweden Switzerland Turkey

United Kingdom

USA USSR

No member body had expressed disapproval of the document.

### Plastics — Non-plasticized cellulose acetate — Determination of moisture content

#### 1 Scope and field of application

This International Standard specifies a method for the determination of the moisture content of non-plasticized cellulose acetate

This determination may be required for the calculation of the dry mass of the cellulose acetate used in analytical methods.

This method applies only to cellulose acetate with a moisture content of not more than 10 %.

Introduce the weighing bottle containing the test portion, with its lid removed and placed along side, into the oven, maintained at 105  $\pm$  2 °C for 3 h.

Remove the weighing bottle from the oven, cover with its lid, cool in the desiccator and then re-weigh to the nearest 0,001 g.

**4.2** Carry out two determinations. If the difference in percentage moisture content between the two is more than 0,1, repeat the test.

### 2 Principle iTeh STANDARIS Calculation and expression of results

Drying of the test sample at 105 °C in a thermostatic over, then the moisture content, expressed as a percentage by mass, is weighing. Calculation of the moisture content from the loss of mass of the test portion.

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 $\frac{\text{ISO }585:1982}{\text{https://standards.iteh.ai/catalog/standards/sist/5dc}} \frac{m_1 - m_2}{\text{M40} \text{fa} - 4\text{eff-4c0d-9d48-}} \times 100$ 

#### 3 Apparatus

- **3.1** Glass weighing bottle, low wide form, with a ground-glass lid.
- 3.2 Desiccator, containing anhydrous calcium chloride.
- **3.3** Oven, capable of being maintained at 105  $\pm$  2 °C.
- **3.4** Balance, accurate to 0,001 g.

#### 4 Procedure

**4.1** Dry the weighing bottle and its ground-glass lid (3.1) in the oven (3.3), maintained at 105  $\pm$  2 °C, for 1/2 h, cool in the desiccator (3.2) and weigh to the nearest 0,001 g.

Weigh approximately 5 g of cellulose acetate, to the nearest 0,001 g, in the weighing bottle.

#### where

- $m_1$  is the mass, in grams, of the test portion before drying;
- $m_2$  is the mass, in grams, of the test portion after drying.

Take as the result the mean of two acceptable determinations (see 4.2).

#### 6 Test report

The test report shall include the following particulars:

- a) reference to this International Standard;
- b) complete identification of the product tested, including physical form;
- c) percentage moisture content.

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