
Dc`ja Yfb]a UHf]U]!'8c`c Ub^bUg]dbY'a UgY'a UHf]UUnUcV]_cj Ub^Z_] [Ub]
a c[c YbUgi h]g_cn]`]^Xc`c Yb]`a Yf`fIGC`*%% +*Ł

Plastics - Determination of apparent density of moulding material that cannot be poured from a specified funnel (ISO 61:1976)

Kunststoffe - Bestimmung der scheinbaren Dichte von Formmassen, die nicht durch einen gegebenen Trichter abfließen können (Stopfdichte) (ISO 61:1976)

Matieres plastiques - Détermination de la masse volumique apparente des matieres a mouler non susceptibles de s'écouler a travers un entonnoir donné (ISO 61:1976)

<https://standards.iteh.ai/catalog/standards/sist/66e0dcc7-f731-4251-9fac-8633126158ed/sist-en-iso-61-2000>

Ta slovenski standard je istoveten z: EN ISO 61:1999

ICS:

83.080.10 Duromeri Thermosetting materials

SIST EN ISO 61:2000 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 61

June 1999

ICS 83.080.10

English version

Plastics - Determination of apparent density of moulding material
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This European Standard was approved by CEN on 6 May 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

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 December 1999, and conflicting national standards shall be withdrawn at the latest by December 1999.

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 61:1976 has been approved by CEN as a European Standard without any modification.

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ALIBEVOL ANIBU 9: a
CISOLVAVET M TOMAS DE OTTOTOBUC
epelovom di efimen d. r. l. in 199 d. 199
1999
NO. 091 121.1010
IN 1999



INTERNATIONAL STANDARD**61**

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

Plastics — Determination of apparent density of moulding material that cannot be poured from a specified funnel

Matières plastiques — Détermination de la masse volumique apparente des matières à mouler non susceptibles de s'écouler à travers un entonnoir donné

First edition — 1976-06-15

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UDC 678.033 : 531.755

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Descriptors : plastics, moulding materials, tests, physical tests, density measurement, bulk density.

Price based on 1 page

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 61 was drawn up by Technical Committee ISO/TC 61 *Plastics*. It was submitted directly to the ISO Council, in accordance with clause 6.12.1 of the Directives for the technical work of ISO.

This International Standard cancels and replaces ISO Recommendation R 61-1958, which had been approved by the Member Bodies of the following countries :

Australia	India	Portugal
Austria	Ireland	South Africa, Rep. of
Bulgaria	Israel	Spain
Chile	Italy	Sweden
Czechoslovakia	Japan	Turkey
Denmark	Mexico	United Kingdom
Finland	Netherlands	U.S.A.
France	New Zealand	U.S.S.R.
Germany	Pakistan	Yugoslavia
Greece	Poland	

No Member Body had expressed disapproval of the document.

Plastics – Determination of apparent density of moulding material that cannot be poured from a specified funnel

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method of determining the apparent density, i.e. the mass per unit of volume, of loose moulding material that cannot be poured from a funnel of specified design.

NOTE – For a method of determining the apparent density of loose moulding material that can be poured from a specified funnel, see ISO 60.

A knowledge of apparent density is of limited value in estimating the relative fluffiness or bulk of moulding materials, unless their densities in the moulded condition are approximately the same.

2 APPARATUS

2.1 Balance, accurate to 0,1 g.

2.2 Measuring cylinder, smoothly finished inside, which may be constructed of metal, of capacity $1\ 000 \pm 20$ ml and internal diameter 90 ± 2 mm.

2.3 Plunger, consisting of a hollow cylinder of mass $2\ 300 \pm 20$ g, closed at one end and having an external diameter slightly smaller than the internal diameter of the measuring cylinder. The plunger may conveniently be weighted with lead shot.

3 PROCEDURE

3.1 Drop $60 \pm 0,2$ g of loose moulding material, little by little, into the measuring cylinder (2.2) so that it is distributed evenly with its surface as level as possible. Lower the plunger (2.3) slowly into the measuring cylinder until it is entirely supported by the material. After 1 min, measure the height of the material, with the plunger resting upon it, to the nearest 1 mm. A convenient method of measuring

the height of the material is, for example, by means of a suitable scale marked vertically on the outside surface of the plunger.

3.2 Make three determinations on the sample of moulding material under test.

4 EXPRESSION OF RESULTS

The apparent density of the moulding material under test is given, in grams per millilitre (see note) by the formula

$$\frac{m}{A h}$$

where

m is the mass, in grams, of the material placed in the measuring cylinder (i.e. 60);

A is the internal cross-sectional area of the measuring cylinder, in square centimetres;

h is the height of moulding material in the measuring cylinder, in centimetres.

NOTE – Although apparent density is calculated in grams per cubic centimetre, it is expressed here in grams per millilitre for the sake of uniformity with ISO 60. No adjustment of the test result is required.

Take as the result the arithmetic mean of the results of the three determinations.

5 TEST REPORT

The test report shall include the following particulars :

- complete identification of the material tested;
- the individual results and the mean.