



SLOVENSKI STANDARD
SIST EN ISO 8295:2004

01-oktober-2004

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Plastics - Film and sheeting - Determination of the coefficients of friction (ISO 8295:1995)

Kunststoffe - Folien und Bahnen - Bestimmung der Reibungskoeffizienten (ISO 8295:1995)

Plastiques - Film et feuille - Détermination des coefficients de frottement (ISO 8295:1995)

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Ta slovenski standard je istoveten z: **EN ISO 8295:2004**
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ICS:

83.140.10 Filmi in folije Films and sheets

SIST EN ISO 8295:2004 **en,fr,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 8295

July 2004

ICS 83.140.10

English version

Plastics - Film and sheeting - Determination of the coefficients of friction (ISO 8295:1995)

Plastiques - Film et feuille - Détermination des coefficients de frottement (ISO 8295:1995)

This European Standard was approved by CEN on 21 June 2004.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 8295:2004 (E)**Foreword**

The text of ISO 8295:1995 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 8295:2004 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 January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 8295:1995 has been approved by CEN as EN ISO 8295:2004 without any modifications.

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 (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD 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
8295

Second edition
1995-10-01

**Plastics — Film and sheeting —
Determination of the coefficients of friction**

iTeh STANDARD PREVIEW
*Plastiques — Film et feuille — Détermination des coefficients
de frottement*
(standards.iteh.ai)

[SIST EN ISO 8295:2004](#)

<https://standards.iteh.ai/catalog/standards/sist/5265890f-ab2c-4bc0-b2b4-9f93dbe7584b/sist-en-iso-8295-2004>



Reference number
ISO 8295:1995(E)

ISO 8295:1995(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.

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 8295 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

This second edition cancels and replaces the first edition (ISO 8295:1986), which has been technically revised.

Annex A of this International Standard is for information only.

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International Organization for Standardization
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Printed in Switzerland

Plastics — Film and sheeting — Determination of the coefficients of friction

1 Scope

1.1 This International Standard specifies a method for determining the coefficients of starting and sliding friction of plastic film and sheeting when sliding over itself or other substances. The method is intended to be used for non-sticky plastic film and sheeting (in the following text, referred to simply as "film") of up to approximately 0,5 mm thickness.

1.2 This test method serves primarily for quality control. It does not give a comprehensive assessment of the machinability on packaging or processing machines since other effects, e.g. electrostatic charges, air cushion, local rise of temperature and abrasion are, as a rule, involved.

1.3 The static frictional force increases as a rule, with the time the surfaces are in contact. Therefore, to get comparable results, this time span is specified.

1.4 Slip properties are sometimes generated by additives in the plastic material. The additives have varying degrees of compatibility with the film matrix. They may bloom or exude to the surface and change the slip properties. Since these effects are time-dependent, measurements on such films have to be related to the age of the film.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most re-

cent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 291:1977, *Plastics — Standard atmospheres for conditioning and testing*.

3 Definitions

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

3.1 friction: The resistance that two surfaces lying in contact with each other build up against sliding. A distinction is made between static friction and dynamic friction.

3.1.1 static friction: Friction which has to be overcome as a "threshold value" at the onset of sliding motion.

3.1.2 dynamic friction: Friction which persists during a sliding motion at a given speed.

3.2 frictional force: The force necessary to overcome friction. A distinction is made between the static frictional force F_S and the dynamic frictional force F_D .

3.3 normal force, F_p : The force acting perpendicular to the surfaces in contact.

3.4 coefficient of friction: The ratio of the frictional force to the normal force, acting perpendicular to the two surfaces in contact.

3.4.1 static coefficient of friction:

$$\mu_S = \frac{F_S}{F_p}$$