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

*BS 2782-8:
Method 824A:1996
(renumbers the BS as
BS EN ISO
8295:2004)*

The European Standard EN ISO 8295:2004 had the status of a British Standard

ICS 83.140

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British Standard

The preparation of this British Standard was entrusted to Technical Committee PRI/75, Plastics and rubber film and sheets, upon which the following bodies were represented:

British Plastics Federation
Her Majesty's Stationery Office
Institute of Trading Standards Administration
Ministry of Defence
Packaging and Industrial Films Association
PIRA International

This British Standard, having been prepared under the direction of the Sector Board for Materials and Chemicals, was published under the authority of the Standards Board and comes into effect on 15 May 1996

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Amendments issued since publication

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The following BSI references relate to the work on this British Standard:
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This British Standard is the English language version of EN ISO 8295:2004. It is identical with ISO 8295:1995.

It supersedes BS 2782-8:Method 824A:1984 which is withdrawn.

Cross-references

The Technical Committee has reviewed the provisions of ISO 291:1977, to which reference is made in the text, and which is related to BS 2782-0, Introduction, and has decided that they are acceptable for use in conjunction with this standard.

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled "International Standards Correspondence Index", or by using the "Search" facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISO title page, the EN ISO foreword page, pages 1 to 8, an inside back cover and a back cover.

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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.

CEN

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

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

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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 the 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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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 recent 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