



SLOVENSKI STANDARD

SIST EN ISO 472:2014

01-julij-2014

Nadomešča:
SIST EN ISO 472:2002

Polimerni materiali - Slovar (ISO 472:2013)

Plastics - Vocabulary (ISO 472:2013)

Kunststoffe - Fachwörterverzeichnis (ISO 472:2013)

Plastiques - Vocabulaire (ISO 472:2013)

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en

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NORME EUROPÉENNE
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Supersedes EN ISO 472:2001

English Version

Plastics - Vocabulary (ISO 472:2013)

Plastiques - Vocabulaire (ISO 472:2013)

Kunststoffe - Fachwörterverzeichnis (ISO 472:2013)

This European Standard was approved by CEN on 19 July 2010.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN ISO 472:2013) has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with Technical Committee CEN/TC 249 "Plastics" the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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ISO
472

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Fourth edition
Quatrième édition
2013-02-01

Plastics — Vocabulary

Plastiques — Vocabulaire

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ISO 472:2013(E/F)**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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 472 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 1, *Terminology*.

This fourth edition cancels and replaces the third edition (ISO 472:1999), which has been technically revised.

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Introduction

In this fourth edition of ISO 472, the terms and definitions have been stored in the Online Browsing Platform (OBP) where they can be browsed free of charge by members of the public (but not downloaded). The following information is included for each term in each of the three languages currently available (English, French and German):

- term ID — unique for each term;
- term;
- definition;
- note (where applicable).

The complete product is available at the following URL. Please copy the link below in your browser:

<http://www.iso.org/obp>

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Plastics — Vocabulary

1 Scope

This International Standard defines terms used in the plastics industry, including terms and definitions appearing in plastics standards (of ISO/TC 61) and general terms and definitions of polymer science used in all aspects of plastics technology.

NOTE In addition to terms in English and French (two of the three official ISO languages), this vocabulary includes the equivalent terms in German; these have been included under the responsibility of the member body for Germany (DIN). However, only the terms and definitions in the official languages can be considered as ISO terms and definitions.

2 Terms and definitions

When a term has one or more synonyms, they follow the preferred term. The synonyms are listed in alphabetical order. Deprecated terms are indicated by “(deprecated)”.

IUPAC rules for source-based names of polymers specify that, when “poly” is followed by more than one word, parentheses are used. The IUPAC practice is followed in this International Standard. In common use, the parentheses are often omitted.

For terms involving olefins, the name used commonly in the plastics industry has been utilized rather than the (scientific) name approved by IUPAC; for example, polyethylene is used as opposed to polyethene.

Some definitions in this International Standard begin with information in angled brackets. This has been added to indicate limitation of the definition to a particular field.

In the English text, the word class (i.e. “noun”, “verb” or “adjective”) of terms is indicated where necessary to avoid ambiguity.

2.786

abrasive wear

<abrasion testing> progressive loss of material from the operating surface of a plastic material resulting from the cutting or scratching action of an abrasive wheel

2.785

abrasive wheel

<abrasion testing> small grinding wheel or a roller faced with abrasive paper

2.1666

accelerated-ageing test

short-term test designed to simulate the effects of longer-term service conditions

2.1

accelerator

promoter

substance used in small proportions to increase the reaction rate of a chemical system (reactants, plus other additives)

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2.2

accuracy of the mean

closeness of agreement between the true value and the mean result which would be obtained by applying an experimental procedure a very large number of times

Note 1 to entry: The smaller the systematic part of the experimental errors which affect the result, the more accurate is the procedure.

2.4

acrylic plastic

plastic based on polymers made with acrylic acid or a structural derivative of acrylic acid, or their copolymers with other monomers, the acrylic monomer(s) being in the greatest amount by mass

2.1581

acrylonitrile-butadiene rubber**nitrile rubber****nitrile-butadiene****NBR**

range of synthetic rubbers made by the copolymerization of buta-1,3-diene and acrylonitrile

Note 1 to entry: Depending on their acrylonitrile content, these rubbers are oil- and solvent-resistant. Suitably compounded, they are used as a basis for solvent-borne adhesives. NBR is also available as latices, allowing the manufacture of dispersion adhesives. Acrylonitrile-butadiene rubber can be carboxylated.

2.5

acrylonitrile-butadiene-styrene plastic**ABS plastic**

plastic, based on terpolymers and/or blends of polymers and copolymers, made with acrylonitrile, butadiene and styrene

2.6

acrylonitrile-methyl methacrylate plastic**AMMA plastic**

plastic based on copolymers of acrylonitrile and methyl methacrylate

2.1712

activated sludge

biomass produced in the aerobic treatment of waste water by the growth of bacteria and other microorganisms in the presence of dissolved oxygen

Note 1 to entry: It is used in the composting of plastics waste.

2.1627

activation**reactivation**

<adhesives> provision or restoration of the bonding properties of a dried adhesive coat

2.7

activator

substance used in small proportions to increase the effectiveness of an accelerator

2.8

addition polymer

polymer made by addition polymerization

2.9

addition polymerization

polymerization by a repeated addition process

Note 1 to entry: The repeated addition process takes place without the splitting off of water or other simple molecules.

2.11**adhere**

be in a state of adherence

2.12**adherence**

state in which two surfaces are held together by interfacial forces

Note 1 to entry: Adherence can be achieved with or without the use of an adhesive.

2.13**adherend**

body that is, or is intended to be, held to another body

Note 1 to entry: "Adherend" is a narrower term than "substrate".

2.1669**adherend failure**

failure of an adhesive bond in the body of an adherend

2.1654**adhesion**

state in which two surfaces are held together by interfacial adhesive bonds

2.30**adhesion failure****adhesive failure**

failure of an adhesive bond in such a way that the separation appears to be at the adhesive/adherend interface

2.1548**adhesion promoter****coupling agent**

substance used in small proportions to increase the adhesion to specific substrates

2.1623**adhesive coat**

adhesive layer applied to an adherend

2.1624**adhesive film**

adhesive coat separated from the substrate after setting

Note 1 to entry: Adhesive films are used for test purposes.

2.32**adhesive line****glue line** (deprecated)

space filled with adhesive between two parts to be bonded or in a bonded product

2.1527**adhesive tape**

flexible backing or carrier coated with a pressure-sensitive, moistenable or heat-activatable adhesive

2.33**afterflame**

flame which persists after the ignition source has been removed

2.34**afterflame time**

length of time for which an afterflame persists under specified conditions

Note 1 to entry: It is expressed in seconds.