Nederlandse

norm

NEN-EN-ISO 11542-2

Kunststoffen - Pers-, spuitgiet- en extrusiematerialen van polyetheen met een ultra-hoge moleculaire massa (PE-UHMW) - Deel 2: Bereiding van proefstukken en bepaling van eigenschappen (ISO 11542-2:1998,IDT)

Plastics - Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 11542-2:1998,IDT)

december 1998
ICS 83.080.20

Vervangt NEN-EN-ISO 11542-2:1997 Ontw.

Als Nederlandse norm is aanvaard:
- EN ISO 11542-2:1998,IDT
- ISO 11542-2:1998,IDT

Normcommissie 310 061 "Kunststoffen"

Nederlands Normalisatie-instituut

Kalfjeslaan 2, Postbus 5059, 2600 GB Delft
Telefoon (015) 2 690 390, Fax (015) 2 690 190

Nederlands voorwoord

Voor de in deze norm vermelde normatieve verwijzingen bestaan in Nederland de volgende equivalenten:

Vermelde norm	Nederlandse norm	Titel
ISO 75-1:1993	NEN-EN-ISO 75-1:1996	Kunststoffen - Bepaling van de vervormingstemperatuur onder belasting - Deel 1: Algemene beproevingsmethoden
ISO 75-2:1993	NEN-EN-ISO 75-2:1996	Kunststoffen - Bepaling van de vervormingstemperatuur onder belasting - Deel 2: Kunststoffen en eboniet
ISO 178:1993	NEN-EN-ISO 178:1997	Kunststoffen - Bepaling van de buigeigenschappen
ISO 291:1997	NEN-EN-ISO 291:1997	Kunststoffen - Conditionerings- en beproevingsomstandigheden
ISO 527-1:1993	NEN-EN-ISO 527-1:1996	Kunststoffen - Bepaling van de trekeigenschappen - Deel 1: Algemene beginselen
ISO 527-2:1993	NEN-EN-ISO 527-2:1996	Kunststoffen - Bepaling van de trekeigenschappen - Deel 2: Beproevingsomstandigheden voor pers-, spuitgiet- en extrusiekunststoffen
ISO 527-4:1997	NEN-EN-ISO 527-4:1997	Kunststoffen - Bepaling van de trekeigenschappen - Deel 4: Beproevingsomstandigheden voor isotrope en orthotrope met vezel versterkte kunststofcomposieten
ISO 899-1:1993	NEN-EN-ISO 899-1:1997	Kunststoffen - Bepaling van het kruipgedrag - Deel 1: Kruip onder trekspanning
ISO 2818:1994	NEN-ISO 2818:1997	Kunststoffen - Vervaardiging van proefstukken door machinale bewerking
ISO 3167:1993	NEN-EN-ISO 3167:1997	Kunststoffen - Proefstukken voor meer doeleinden
ISO 8256:1990	NEN-EN-ISO 8256:1997	Kunststoffen - Bepaling van de trekslagsterkte
ISO 10350:1993	NEN-EN-ISO 10350:1995	Kunststoffen - Vaststelling en weergave van vergelijkbare eenpunts-gegevens

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 11542-2

November 1998

ICS 83.080.20

Descriptors: see ISO document

English version

Plastics - Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 11542-2:1998)

Plastiques - Matériaux à base de polyéthylène à très haute masse moléculaire (PE-UHMW) pour moulage et extrusion - Partie 2: Préparation des éprouvettes et détermination des propriétés (ISO 11542-2:1998)

Kunststoffe - Ultrahochmolekulares Polyethylen (PE-UHMW)-Formmassen - Teil 2: Herstellung von Probekörpern und Bestimmung von Eigenschaften (ISO 11542-2:1998)

This European Standard was approved by CEN on 8 November 1998.

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.

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

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

Ref. No. EN ISO 11542-2:1998 E

Foreword

The text of the International Standard ISO 11542-2:1998 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 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 May 1999, and conflicting national standards shall be withdrawn at the latest by May 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 11542-2:1998 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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.

Publication	Year	Title	EN	Year
ISO 75-1	1993	Plastics – Determination of temperature of deflection under load – Part 1: General test method	EN ISO 75-1	1996
ISO 75-2	1993	Plastics – Determination of temperature of deflection under load – Part 2: Plastics and ebonite	EN ISO 75-2	1996
ISO 178	1993	Plastics - Determination of flexural properties	EN ISO 178	1996
ISO 291	1997	Plastics – Standard atmospheres for conditioning and testing	EN ISO 291	1997
ISO 527-1	1993	Plastics – Determination of tensile properties – Part 1: General principles	EN ISO 527-1	1996
ISO 527-2	1993	Plastics – Determination of tensile properties – Part 2: Test conditions for moulding and extrusion plastics	EN ISO 527-2	1996
ISO 527-4	1997	Plastics – Determination of tensile properties – Part 4: Test conditions for isotropic an orthotopic fibre-reinforced plastic composites	EN ISO 527-4	1997
ISO 899-1	1993	Plastics – Determination of creep behaviour – Part 1: Tensile creep	EN ISO 899-1	1996
ISO 2818	1994	Plastics – Preparation of test specimens by machining	EN ISO 2818	1996
ISO 3167	1993	Plastics – Multipurpose-test specimens	EN ISO 3167	1996
ISO 8256	1990	Plastics – Determination of tensile-impact strength	EN ISO 8256	1996
ISO 10350	1993	Plastics – Acquisition and presentation of comparable single-point data	EN ISO 10350	1995

INTERNATIONAL STANDARD

ISO 11542-2

First edition
1998-11-15

Plastics — Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials —

Part 2:
Preparation of test specimens and determination of properties

Plastics — Matériaux à base de polyéthylène à très haute masse moléculaire (PE-UHMW) pour moulage et extrusion —

Partie 2: Préparation des éprouvettes et détermination des propriétés

Reference number
ISO 11542-2:1998(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 11542-2 was prepared by Technical Committee ISO/TC 61, *Plastics,* Subcommittee SC 9, *Thermoplastic materials.*

ISO 11542 consists of the following parts, under the general title *Plastics — Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials*:

— *Part 1: Designation system and basis for specifications*

— *Part 2: Preparation of test specimens and determination of properties*

Annexes A and B form an integral part of this part of ISO 11542.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

INTERNATIONAL STANDARD © ISO **ISO 11542-2:1998(E)**

Plastics — Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials —

Part 2:
Preparation of test specimens and determination of properties

1 Scope

This part of ISO 11542 specifies the methods of preparation of test specimens and the test methods to be used in determining the properties of PE-UHMW moulding and extrusion materials. Requirements for handling test material and for conditioning both the test material before moulding and the specimens before testing are given here.

Procedures and conditions for the preparation of test specimens and procedures for measuring properties of the materials from which these specimens are made are given. Properties and test methods which are suitable and necessary to characterize PE-UHMW moulding and extrusion materials are listed.

The properties have been selected from the general test methods in ISO 10350-1. Other test methods in wide use for or of particular significance to these moulding and extrusion materials are also included in this part of ISO 11542, as are the designatory properties specified in part 1.

In order to obtain reproducible and comparable test results, it is necessary to use the methods of preparation and conditioning, the specimen dimensions and the test procedures specified herein. Values determined will not necessarily be identical to those obtained using specimens of different dimensions or prepared using different procedures.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 11542. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 11542 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 62:—[1)], *Plastics — Determination of water absorption.*

ISO 75-1:1993, *Plastics — Determination of temperature of deflection under load — Part 1: General test method.*

ISO 75-2:1993, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite.*

ISO 178:1993, *Plastics — Determination of flexural properties.*

---

1) To be published. (Revision of ISO 62:1980)

Bestelformulier

Stuur naar:

NEN Standards Products & Services
t.a.v. afdeling Klantenservice
Antwoordnummer 10214
2600 WB Delft

NEN Standards Products & Services

Postbus 5059
2600 GB Delft

Vlinderweg 6
2623 AX Delft

T (015) 2 690 390
F (015) 2 690 271

www.nen.nl/normshop

Ja, ik bestel

__ ex. NEN-EN-ISO 11542-2:1998 en Kunststoffen - Pers-, spuitgiet- en extrusiematerialen van polyetheen met een ultra-hoge moleculaire massa (PE-UHMW) - Deel 2: Bereiding van proefstukken en bepaling van eigenschappen	€ 79.70

Wilt u deze norm in PDF-formaat? Deze bestelt u eenvoudig via www.nen.nl/normshop

Gratis e-mailnieuwsbrieven

Wilt u op de hoogte blijven van de laatste ontwikkelingen op het gebied van normen, normalisatie en regelgeving? Neem dan een gratis abonnement op een van onze e-mailnieuwsbrieven. www.nen.nl/nieuwsbrieven

Gegevens

Bedrijf / Instelling

T.a.v. O M O V

E-mail

Klantnummer NEN

Uw ordernummer BTW nummer

Postbus / Adres

Postcode Plaats

Telefoon Fax

Factuuradres (indien dit afwijkt van bovenstaand adres)

Postbus / Adres

Postcode Plaats

Datum Handtekening

Retourneren

Fax: 015 2 690 271
E-mail: klantenservice@nen.nl
Post: NEN Standards Products & Services,
t.a.v. afdeling Klantenservice
Antwoordnummer 10214,
2600 WB Delft
(geen postzegel nodig).

Voorwaarden

- De prijzen zijn geldig tot 31 december 2018, tenzij anders aangegeven.
- Alle prijzen zijn excl. btw, verzend- en handelingskosten en onder voorbehoud bij o.m. ISO- en IEC-normen.
- Bestelt u via de normshop een pdf, dan betaalt u geen handeling en verzendkosten.
- Meer informatie: telefoon 015 2 690 391, dagelijks van 8.30 tot 17.00 uur.
- Wijzigingen en typefouten in teksten en prijsinformatie voorbehouden.
- U kunt onze algemene voorwaarden terugvinden op: www.nen.nl/leveringsvoorwaarden.