

SLOVENSKI STANDARD

SIST EN ISO 10352:2020

01-december-2020

Nadomešča:

SIST EN ISO 10352:2011

Z vlakni ojačeni polimerni materiali - Zmesi za oblikovanje in preimpregniranje - Ugotavljanje mase na enoto površine in mase vlaken na enoto površine (ISO 10352:2020)

Fibre-reinforced plastics - Moulding compounds and prepregs - Determination of mass per unit area and fibre mass per unit area (ISO 10352:2020)

Faserverstärkte Kunststoffe - Formmassen und Prepregs - Bestimmung der flächenbezogenen Masse und flächenbezogenen Fasermasse (ISO 10352:2020)

Plastiques renforcés de fibres - Détermination de la masse surfacique et de la masse des fibres par unité de surface (ISO 10352:2020)

Ta slovenski standard je istoveten z: EN ISO 10352:2020

ICS:

17.060	Merjenje prostornine, mase, gostote, viskoznosti	Measurement of volume, mass, density, viscosity
83.120	Ojačani polimeri	Reinforced plastics

SIST EN ISO 10352:2020

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 10352:2020](#)

<https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020>

EUROPEAN STANDARD

EN ISO 10352

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2020

ICS 83.120

Supersedes EN ISO 10352:2010

English Version

Fibre-reinforced plastics - Moulding compounds and preregs - Determination of mass per unit area and fibre mass per unit area (ISO 10352:2020)

Plastiques renforcés de fibres - Mélanges à mouler et préimprégnés - Détermination de la masse surfacique et de la masse des fibres par unité de surface (ISO 10352:2020)

Faserverstärkte Kunststoffe - Formmassen und Prepregs - Bestimmung der flächenbezogenen Masse und flächenbezogenen Fasermasse (ISO 10352:2020)

This European Standard was approved by CEN on 28 August 2020.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 10352:2020](https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020)
<https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020>

European foreword

This document (EN ISO 10352:2020) 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 March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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

This document supersedes EN ISO 10352:2010.

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

iTeh STANDARD PREVIEW
Endorsement notice
(standards.iteh.ai)

The text of ISO 10352:2020 has been approved by CEN as EN ISO 10352:2020 without any modification.

[SIST EN ISO 10352:2020
https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020](https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 10352:2020

<https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020>

INTERNATIONAL
STANDARD

ISO
10352

Fourth edition
2020-08

**Fibre-reinforced plastics — Moulding
compounds and prepregs —
Determination of mass per unit area
and fibre mass per unit area**

*Plastiques renforcés de fibres — Mélanges à mouler et préimprégnés
— Détermination de la masse surfacique et de la masse des fibres par
unité de surface*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 10352:2020](https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020)

<https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020>



Reference number
ISO 10352:2020(E)

© ISO 2020

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 10352:2020](#)

<https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
4.1 Determination of mass per unit area.....	2
4.2 Determination of fibre mass per unit area.....	2
4.2.1 Method A: Extraction in Soxhlet-type apparatus.....	2
4.2.2 Method B: Extraction by immersion in solvent in a beaker.....	2
4.2.3 Method C: Decomposition by loss on ignition.....	2
4.2.4 Method D: Extraction by wet combustion.....	2
4.2.5 Method E: Method by calculation.....	2
5 Apparatus and reagents	3
5.1 General.....	3
5.2 For Method A.....	3
5.3 For Method B.....	3
5.4 For Method C.....	4
5.5 For Method D.....	4
6 Conditioning and testing	4
6.1 Conditioning.....	4
6.1.1 Materials for which no conditioning is required.....	4
6.1.2 Conditioning of material stored at ambient temperature.....	5
6.1.3 Conditioning of material stored at below ambient temperature.....	5
6.2 Testing.....	5
6.2.1 Test atmosphere.....	5
6.2.2 Time interval between conditioning and testing.....	5
7 Test specimens	5
7.1 Shape and dimensions.....	5
7.2 Number.....	6
7.3 Preparation.....	6
8 Procedure	8
8.1 Determination of mass per unit area.....	8
8.1.1 Materials made without using a solvent.....	8
8.1.2 Materials made using a solvent.....	8
8.2 Determination of fibre mass per unit area.....	9
8.2.1 Method A: Extraction in Soxhlet-type apparatus.....	9
8.2.2 Method B: Extraction by immersion in solvent.....	9
8.2.3 Method C: Decomposition by loss on ignition.....	9
8.2.4 Method D: Extraction by wet combustion.....	10
8.2.5 Method E: Method by calculation.....	11
9 Expression of results	11
9.1 Mass per unit area.....	11
9.1.1 Materials made without using a solvent.....	11
9.1.2 Materials made using a solvent.....	11
9.2 Fibre mass per unit area.....	12
9.2.1 Method A: Extraction in Soxhlet-type apparatus.....	12
9.2.2 Method B: Extraction by immersion in solvent.....	12
9.2.3 Method C: Extraction by decomposition by loss on ignition.....	12
9.2.4 Method D: Extraction by wet combustion.....	13
9.2.5 Method E: Method by calculation.....	13
10 Precision	13

ISO 10352:2020(E)

10.1	Mass per unit area.....	13
10.2	Fibre mass per unit area.....	13
11	Test report.....	14

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 10352:2020](https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020)

<https://standards.iteh.ai/catalog/standards/sist/0117cb8c-1794-4ef5-b018-886e8a023eba/sist-en-iso-10352-2020>

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 13, *Composites and reinforcement fibres*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 10352:2010), which has been technically revised.

The main changes compared to the previous edition are as follows:

- determination of fibre mass per unit area by Method A, Method B, Method C, Method D and Method E have been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.