



**ISO 527-2**

**Plastics — Determination of tensile properties —**

Part 2:  
**Test conditions for moulding and extrusion plastics**

*Plastiques — Détermination des propriétés en traction —*

*Partie 2: Conditions d'essai des plastiques pour moulage et extrusion*

**Third edition  
2025-06**



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2025

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](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of ISO 527-2:2025. [Click here to purchase the full version from the ANSI store.](#)

<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
<b>4 Principle and methods</b> .....	<b>2</b>
<b>5 Apparatus</b> .....	<b>2</b>
5.1 General.....	2
5.2 Extensometer.....	2
5.3 Recording of data.....	2
<b>6 Test specimens</b> .....	<b>2</b>
6.1 Shape and dimensions.....	2
6.2 Preparation of test specimens.....	3
6.3 Gauge marks.....	4
6.4 Checking the test specimens.....	4
6.5 Anisotropy.....	4
<b>7 Number of test specimens</b> .....	<b>4</b>
<b>8 Conditioning</b> .....	<b>4</b>
<b>9 Procedure</b> .....	<b>4</b>
<b>10 Calculation and expression of results</b> .....	<b>4</b>
<b>11 Precision</b> .....	<b>4</b>
<b>12 Test report</b> .....	<b>5</b>
<b>Annex A (normative) Small specimens</b> .....	<b>6</b>
<b>Annex B (informative) Precision statement</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>11</b>

This is a preview of ISO 527-2:2025. [Click here to purchase the full version from the ANSI store.](#)

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 document 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](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 2, *Mechanical behavior*, 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 third edition cancels and replaces the second edition (ISO 527-2:2012), which has been technically revised.

The main changes are as follows:

- [Figure 1](#) and [Table 1](#) have been moved from [Clause 11](#) to [subclause 6.1](#);
- former subclause 6.6, Number of test specimens, has been renumbered as [Clause 7](#) to align with ISO 527-1:2019;
- the reference to ISO 3167 has been replaced with ISO 20753;
- test specimens 1A and 1B have been replaced by test specimen A1 and A2 according to ISO 20753;
- small test specimen in [Annex A](#), Type 1BA and 1BB have been replaced by reduced scale specimen, as specified in ISO 20753.

A list of all parts in the ISO 527 series can be found on the ISO website.

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](http://www.iso.org/members.html).