

---

---

**Plastics — Acquisition and  
presentation of comparable  
multipoint data —**

**Part 3:  
Environmental influences on  
properties**

*Plastiques — Acquisition et présentation de données multiples  
comparables —*

*Partie 3: Effets induits par l'environnement sur les propriétés*

ISO 11403-3:2021

<https://standards.iteh.ai/catalog/standards/iso/3ef52d9b-f99a-4b83-ac32-01fb5cf35d55/iso-11403-3-2021>



**iTeh Standards**  
**(<https://standards.iteh.ai>)**  
**Document Preview**

[ISO 11403-3:2021](https://standards.iteh.ai/catalog/standards/iso/3ef52d9b-f99a-4b83-ac32-01fb5cf35d55/iso-11403-3-2021)

<https://standards.iteh.ai/catalog/standards/iso/3ef52d9b-f99a-4b83-ac32-01fb5cf35d55/iso-11403-3-2021>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2021

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

# Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</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 Specimen preparation</b> .....	<b>2</b>
<b>5 Conditioning</b> .....	<b>3</b>
<b>6 Test requirements</b> .....	<b>3</b>
6.1 General.....	3
6.2 Indicative properties and indicative data.....	4
6.3 Test specimens.....	4
6.4 Test speed.....	4
6.5 Prolonged exposure to heat: ISO 2578.....	4
6.6 Liquid chemicals.....	6
6.7 Environmental stress cracking under constant tensile stress: ISO 22088 <sup>[10]</sup> .....	6
6.8 Artificial weathering: ISO 4892-2.....	8
6.9 Set of exposure conditions 1: Open air.....	8
6.10 Set of exposure conditions 2: Behind glass, low temperature.....	8
6.11 Set of exposure conditions 3: Behind glass, high temperature.....	9
<b>7 Presentation of data</b> .....	<b>9</b>
<b>8 Precision</b> .....	<b>11</b>
<b>Annex A (informative) Information relating to certain test requirements</b> .....	<b>12</b>
<b>Annex B (normative) Chemicals for chemical resistance and environmental stress cracking resistance tests</b> .....	<b>14</b>
<b>Bibliography</b> .....	<b>15</b>

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

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 2, *Mechanical behaviour*, 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 11403-3:2014), of which it constitutes a minor revision.

The changes compared to the previous edition are as follows:

- unified the indication methods of the unit;
- unified the quotation of the specimen shape in ISO 20753;
- performed the editorial corrections.

A list of all parts in the ISO 11403 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).