

Third edition  
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## **Textile fibres — Determination of breaking force and elongation at break of individual fibres**

*Fibres textiles — Détermination de la force de rupture et de  
l'allongement de rupture des fibres individuelles*



Reference number  
ISO 5079:2020(E)

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## Contents

	Page
<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>1</b>
<b>4 Principle</b> .....	<b>3</b>
<b>5 Apparatus and reagents</b> .....	<b>3</b>
<b>6 Conditioning and testing atmospheres</b> .....	<b>4</b>
<b>7 Sampling and preparation of test specimen</b> .....	<b>4</b>
<b>8 Procedure</b> .....	<b>4</b>
<b>9 Expression of results</b> .....	<b>6</b>
<b>10 Test report</b> .....	<b>7</b>
<b>Annex A (informative) Mounting of test specimens</b> .....	<b>8</b>
<b>Annex B (informative) Tensile test method for certain high-tenacity filaments</b> .....	<b>9</b>
<b>Bibliography</b> .....	<b>12</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)).

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This document was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 23, *Fibres and yarns*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement)

This third edition cancels and replaces the second edition (ISO 5079:1995), which has been technically revised. The main changes compared to the previous edition are as follows:

- addition of “ISO 3696”, “ISO 7500-1” and “ISO 10012” as normative references;
- adjustment of “ISO 3060” and “IWTO 32” from normative references to bibliography;
- revision of the definitions of “breaking force” (3.1), “force at rupture” (3.2), “extension” (3.3), “elongation at break” (3.5), “elongation at rupture” (3.6) “gauge length” (3.7), “initial length” (3.8), “pretension” (3.9) and “breaking density” (3.11);
- deletion of terminological entry for “tension” (former 3.10);
- addition of terminological entry for “constant-rate-of-extension testing machine” (3.10);
- addition of a note in [Clause 4](#);
- redrafting of text describing the requirements for CRE testing machine in [5.1](#);
- addition of “Tweezers” (5.2);
- revision of requirements for wetting solution in [5.3](#) (former 5.2);
- addition of details about preparation of test specimen in [Clause 7](#);
- addition of [8.2 c](#));
- redrafting of the test procedure of wet test in [8.8](#) (former 8.6);

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- redrafting of the test report in [Clause 10](#);
- addition of [Figure A.1](#);
- addition of [Annex B](#).

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).