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# Plastics — Test specimens

*Plastiques — Éprouvettes*



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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)  
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## Foreword

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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 20753:2018), which has been technically revised.

The main changes are as follows:

- Clarified overview of dimensions for reduced-scale dumb bell specimen type A.
  - That it contains harmonization of all tolerances for radii, widths and lengths, calculation of the total tolerance for  $l_2$  (the length  $l_1$  including radii), which now includes the summary of tolerances of the single dimensions.
  - That dimension  $l_2$  is most important for a testing lab, as it needs to be observed to ensure distance between grips at tensile test.
- Change of dimension of test specimen type CP. The dimension is now consistent with type 3 of ISO 8256. The former dimension refers to type 2 of ISO 8256. However, the new dimension tends to be used for high-speed tensile tests for crash simulation.

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).

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## Introduction

Information on plastics test specimens has been specified in several different locations: in test method standards (e.g. ISO 527-2), in ISO 3167 (for multipurpose test specimens) and in ISO 294-1, ISO 294-2, ISO 294-3 and ISO 294-5 (for moulding conditions). The aim of this document is to give the designations and dimensions of test specimens used for the acquisition of comparable data, and also of other frequently used specimens, in one document for ease of reference. Other International Standards that have hitherto used different designations for the same specimen type will also be revised to bring the designations into line with those in this document.