

# INTERNATIONAL STANDARD

# ISO 9772

Second edition  
2001-04-01

**AMENDMENT 1**  
2003-09-15

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## Cellular plastics — Determination of horizontal burning characteristics of small specimens subjected to a small flame

### AMENDMENT 1: Specimens

*Plastiques alvéolaires — Détermination des caractéristiques de  
combustion de petites éprouvettes en position horizontale, soumises  
à une petite flamme*

*AMENDMENT 1: Éprouvettes*

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Reference number  
ISO 9772:2001/Amd.1:2003(E)

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Published in Switzerland

## Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

Amendment 1 to ISO 9772:2001 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 4, *Burning behaviour*.



# Cellular plastics — Determination of horizontal burning characteristics of small specimens subjected to a small flame

## AMENDMENT 1: Specimens

Page 1

Update Clause 2 (normative references) by inserting 2001 as the year of publication of ISO 1043-1 and deleting the footnote.

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Replace Clause 6 “Specimens” by the following clause.

### 6 Specimens

**6.1** It is possible that the results of tests carried out on test specimens taken from materials of different densities, colours and thicknesses will be different. For materials with properties which vary over a range, the test specimens shall be representative of the whole range.

**6.2** Test specimens with densities at the extremes of the range shall be tested and, if the test results yield the same flame test classification, all specimens within the range shall be considered representative of the range. If the burning characteristics are not essentially the same, the results of the evaluation shall be considered to apply only to materials with the densities tested. Additional test specimens with intermediate densities shall be tested to determine the range of applicability.

**6.3** Uncoloured test specimens and test specimens with the highest level of organic and inorganic pigment loading shall be tested and, if the test results yield the same flame test classification, all specimens within this colour range shall be considered representative of the range. If the burning characteristics are not essentially the same, the results of the evaluation shall be considered to apply only to materials with the pigment loadings tested. If a material contains pigments which are known to affect the flammability characteristics, specimens containing these pigments shall also be tested. Thus the test specimens tested shall be those that

- a) contain no colouring;
- b) contain the highest level of organic pigments;
- c) contain the highest level of inorganic pigments;
- d) contain pigments which are known to adversely affect flammability characteristics.

**6.4** All specimens shall be cut from a representative sample of the material (sheets or end products). After any cutting operation, care shall be taken to remove all dust and any particles from the surface. Cut edges shall have a smooth finish.

**6.5** The standard test specimen shall be  $150 \text{ mm} \pm 10 \text{ mm}$  long by  $50 \text{ mm} \pm 1 \text{ mm}$  wide. Materials supplied in thicknesses over  $13 \text{ mm}$  shall be cut to  $13 \text{ mm} \pm 1 \text{ mm}$  thickness with any skin on one side. Materials supplied in thicknesses of  $13 \text{ mm}$  or less shall be tested at the thickness supplied, without removing any skin (see 6.8). If materials with adhesive applied are to be tested, specimens having adhesive on one side only shall be used (see 6.8).

NOTE Tests made on test specimens of different thicknesses or directions of anisotropy are not comparable.

**6.6** Prepare a minimum of 20 specimens for the test. This includes 10 additional specimens in the event that the situation described in 4.4, 4.5 or A.3 is encountered.

**6.7** Mark each specimen across its width with lines at 25 mm, 60 mm and 125 mm from one end, referred to hereafter as gauge marks (see Figure 2).

**6.8** Test specimens with a high-density exterior (skin) on one side shall be tested with this side facing down. Test specimens with adhesive on one side shall be tested with this side facing up.

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