
**Plastics — Determination of burning
behaviour of thin flexible vertical
specimens in contact with a small-flame
ignition source**

*Plastiques — Détermination du comportement au feu d'éprouvettes minces
verticales souples au contact d'une petite flamme comme source
d'allumage*



Foreword

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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.

International Standard ISO 9773 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 4, *Burning behaviour*.

This second edition cancels and replaces the first edition (ISO 9773:1990) which has been technically revised.

Annex A of this International Standard is for information only.

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Plastics – Determination of burning behaviour of thin flexible vertical specimens in contact with a small-flame ignition source

1. Scope

1.1 This International Standard specifies a small-scale laboratory screening procedure for comparing the relative burning behaviour of vertically oriented thin and relatively flexible plastics specimens exposed to a low-energy-level flame ignition source. These specimens cannot be tested using method B of ISO 1210 since they distort or shrink away from the applied flame source without igniting.

1.2 This method of test determines the afterflame and afterglow times of specimens.

1.3 The classification system described in annex A is intended for quality control and the preselection of component materials for products. The classification established by this method of test is applicable only to the material used for the specimens.

NOTE 1 - Test results are influenced by material components, e.g. pigments, fillers, fire-retardant concentrations.

2. Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 291:1997, *Plastics — Standard atmospheres for conditioning and testing.*

ISO 1043-1:1997, *Plastics — Symbols and abbreviated terms — Basic polymers and their special characteristics.*

ISO 1210:—¹), *Plastics — Determination of the burning behaviour of horizontal and vertical specimens in contact with a small-flame (50 W) ignition source.*

ISO 5725-2:1994, *Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method.*

ISO 10093:—²), *Plastics — Fire tests — Standard ignition sources.*

ASTM D 5207-91, *Standard practice for the calibration of 20 mm and 125 mm test flames for small-scale burning tests on plastic materials."*

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1) To be published. (Revision of ISO 1210:1992)

2) To be published. (Revision of ISO 10093:1994)