

INTERNATIONAL STANDARD

**ISO
4578**

Third edition
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Adhesives — Determination of peel resistance of high-strength adhesive bonds — Floating-roller method

*Adhésifs — Détermination de la résistance au pelage des assemblages
à forte cohésion — Méthode des galets mobiles*



Reference number
ISO 4578:1997(E)

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.

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 4578 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

This third edition cancels and replaces the second edition (ISO 4578:1990), which has been technically revised.

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Adhesives — Determination of peel resistance of high-strength adhesive bonds — Floating-roller method

1 Scope

This International Standard specifies a floating-roller method for the determination of the peel resistance of high-strength adhesive bonds between a rigid adherend and a flexible adherend when tested under specified conditions of preparation and testing.

Note — There are indications that the floating roller may produce more constant numerical data than other peel methods. However, it should not be expected that the flexible adherend will conform to the surface of the roller.

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 using the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 291:—¹⁾, *Plastics — Standard atmospheres for conditioning and testing.*

ISO 4588:1995, *Adhesives — Guidelines for the surface preparation of metals.*

ISO 5893:1993, *Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Description.*

ISO 7500-1:1986, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tensile testing machines.*

ISO 9142:1990, *Adhesives — Guide to the selection of standard laboratory ageing conditions for testing bonded joints.*

ISO 10365:1992, *Adhesives — Designation of main failure patterns.*

ISO 13895:1996, *Adhesives — Guidelines for the surface preparation of plastics.*

1) To be published. (Revision of ISO 291:1977)