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Adhesives - Peel test for a flexible-bonded-to-rigid test  
specimen assembly - Part 2: 180 degree peel

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 8510-2:2010 sisaldab Euroopa standardi EN ISO 8510-2:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.10.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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This Estonian standard EVS-EN ISO 8510-2:2010 consists of the English text of the European standard EN ISO 8510-2:2010.

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English Version

Adhesives - Peel test for a flexible-bonded-to-rigid test specimen  
assembly - Part 2: 180 degree peel (ISO 8510-2:2006)

Adhésifs - Essai de pelage pour un assemblage collé  
flexible-sur-rigide - Partie 2: Pelage à 180 degrés (ISO  
8510-2:2006)

Klebstoffe - Schälprüfung für flexibel/starr geklebte Proben  
- Teil 2: 180 Grad-Schälversuch (ISO 8510-2:2006)

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Management Centre: Avenue Marnix 17, B-1000 Brussels

## Foreword

The text of ISO 8510-2:2006 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 8510-2:2010 by Technical Committee CEN/TC 193 "Adhesives" the secretariat of which is held by AENOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2011, and conflicting national standards shall be withdrawn at the latest by March 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 28510-2:1993.

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### Endorsement notice

The text of ISO 8510-2:2006 has been approved by CEN as a EN ISO 8510-2:2010 without any modification.

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# Adhesives — Peel test for a flexible-bonded-to-rigid test specimen assembly —

## Part 2: 180° peel

**SAFETY PRECAUTIONS** — Persons using this document should be familiar with normal laboratory practice, if applicable. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any regulatory conditions.

### 1 Scope

This part of ISO 8510 specifies a 180° peel test for the determination, under specified conditions, of the peel resistance of a bonded assembly of two adherends where one adherend is flexible and the other is rigid.

A 90° peel test, more suitable for use with less flexible adherends that crack, break or delaminate in the 180° peel test, is described in ISO 8510-1.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 17212, *Structural adhesives — Guidelines for the surface preparation of metals and plastics prior to adhesive bonding*

### 3 Principle

A bonded assembly of two adherends is prepared using the adhesive under test. The adherends are then pulled apart at a substantially steady rate, starting at the open end of the bond, in such a way that separation occurs progressively along the length of the bonded adherends. The force is applied substantially parallel to the plane of the bond, through the separated part of the flexible adherend.

### 4 Apparatus

**4.1 Tensile testing machine**, capable of supplying a tensile force with a constant rate of grip separation. The machine shall be equipped with a force-measuring system complete with an indicator and/or a recorder. The indicated force shall not differ from the true applied force by more than 2 %. The response time of the machine shall be short enough not to affect the accuracy with which the force applied at the time of rupture can be measured. The force at rupture of the specimen shall lie in the range between 10 % and 80 % of the full-scale reading.