

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

Tape – Bestemmelse af egenskaber for peeladhæsion

Self adhesive tapes – Determination of peel adhesion properties (ISO 29862:2018)

DANSK STANDARD
Danish Standards Association

Göteborg Plads 1
DK-2150 Nordhavn

Tel: +45 39 96 61 01

Tel: +45 39 96 61 01

dansk.standard@ds.dk

www.ds.dk

This is a preview of "DS/EN ISO 29862:2019". Click here to purchase the full version from the ANSI store.

DS projekt: M328501

ICS: 83.180

Første del af denne publikations betegnelse er:

DS/EN ISO, hvilket betyder, at det er en international standard, der har status både som europæisk og dansk standard.

Denne publikations overensstemmelse er:

IDT med: ISO 29862:2018

IDT med: EN ISO 29862:2019

DS-publikationen er på engelsk.

Denne publikation erstatter: [DS/EN 1939:2003](#)

DS-publikationstyper

Dansk Standard udgiver forskellige publikationstyper.

Typen på denne publikation fremgår af forsiden.

Der kan være tale om:

Dansk standard

- standard, der er udarbejdet på nationalt niveau, eller som er baseret på et andet lands nationale standard, eller
- standard, der er udarbejdet på internationalt og/eller europæisk niveau, og som har fået status som dansk standard

DS-information

- publikation, der er udarbejdet på nationalt niveau, og som ikke har opnået status som standard, eller
- publikation, der er udarbejdet på internationalt og/eller europæisk niveau, og som ikke har fået status som standard, fx en teknisk rapport, eller
- europæisk præstandard

DS-håndbog

- samling af standarder, eventuelt suppleret med informativt materiale

DS-hæfte

- publikation med informativt materiale

Til disse publikationstyper kan endvidere udgives

- tillæg og rettelsesblade

DS-publikationsform

Publikationstyperne udgives i forskellig form som henholdsvis

- fuldtekstpublikation (publikationen er trykt i sin helhed)
- godkendelsesblad (publikationen leveres i kopi med et trykt DS-omslag)
- elektronisk (publikationen leveres på et elektronisk medie)

DS-betegnelse

Alle DS-publikationers betegnelse begynder med DS efterfulgt af et eller flere præfikser og et nr., fx **DS 383**, **DS/EN 5414** osv. Hvis der efter nr. er angivet et **A** eller **Cor**, betyder det, enten at det er et **tillæg** eller et **rettelsesblad** til hovedstandard, eller at det er indført i hovedstandard.

DS-betegnelse angives på forsiden.

Overensstemmelse med anden publikation:

Overensstemmelse kan enten være IDT, EQV, NEQ eller MOD

- **IDT:** Når publikationen er identisk med en given publikation.
- **EQV:** Når publikationen teknisk er i overensstemmelse med en given publikation, men præsentationen er ændret.
- **NEQ:** Når publikationen teknisk eller præsentationsmæssigt ikke er i overensstemmelse med en given standard, men udarbejdet på baggrund af denne.
- **MOD:** Når publikationen er modificeret i forhold til en given publikation.

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

EUROPÄISCHE NORM

June 2019

ICS 83.180

Supersedes EN 1939:2003

English Version

Self adhesive tapes - Determination of peel adhesion properties (ISO 29862:2018)

Rubans auto-adhésifs - Détermination des caractéristiques du pouvoir adhésif linéaire (ISO 29862:2018)

Klebebänder - Bestimmung der Klebkraft (ISO 29862:2018)

This European Standard was approved by CEN on 8 April 2019.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

Contents

Page

European foreword	3
-------------------------	---

This is a preview of "DS/EN ISO 29862:2019". Click here to purchase the full version from the ANSI store.

European foreword

The text of [ISO 29862:2018](#) 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 29862:2019](#) by Technical Committee CEN/TC 193 "Adhesives" the secretariat of which is held by UNE.

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 December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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

This document supersedes [EN 1939:2003](#).

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of [ISO 29862:2018](#) has been approved by CEN as [EN ISO 29862:2019](#) without any modification.

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

Second edition
2018-05-15

Self adhesive tapes — Determination of peel adhesion properties

*Rubans auto-adhésifs — Détermination des caractéristiques du
pouvoir adhésif linéaire*



Reference number
ISO 29862:2018(E)

© ISO 2018

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

This is a preview of "DS/EN ISO 29862:2019". Click here to purchase the full version from the ANSI store.

Contents

Page

Foreword	v
1 Scope	1
2 Normative references	2
3 Terms and definitions	2
4 Significance and use	2
5 Method 1 — Self adhesive tapes — Measurement of peel adhesion from stainless steel at an angle of 180°	3
5.1 Principle.....	3
5.2 Materials.....	3
5.3 Apparatus.....	3
5.4 Test samples and test pieces.....	4
5.5 Procedure.....	5
5.5.1 Standard test conditions.....	5
5.5.2 Preparation of the panel.....	5
5.5.3 Peel adhesion.....	5
5.6 Expression of results.....	5
5.7 Test report.....	5
6 Method 2 — Self adhesive tapes — Measurement of peel adhesion from its own backing at an angle of 180°	6
6.1 Principle.....	6
6.2 Apparatus.....	6
6.3 Test samples and test pieces.....	6
6.4 Procedure.....	7
6.4.1 Standard test conditions.....	7
6.4.2 Preparation of the panel.....	7
6.5 Expression of results.....	7
6.6 Test report.....	7
7 Method 3 — Self adhesive tapes — Measurement of peel adhesion of double sided and transfer tapes at an angle of 180°	7
7.1 Principle.....	7
7.2 Materials.....	7
7.3 Apparatus.....	7
7.4 Test samples and test pieces.....	7
7.5 Procedure.....	8
7.5.1 Standard test conditions.....	8
7.5.2 Preparation of the panel.....	8
7.5.3 Procedure for open side of double sided or adhesive transfer tape.....	8
7.5.4 Procedure for closed side of double sided or adhesive transfer tape.....	8
7.6 Expression of results.....	8
7.7 Test report.....	8
8 Method 4 — Self adhesive tapes — Measurement of adhesion of the liner to an adhesive tape at an angle of 180°	9
8.1 Principle.....	9
8.1.1 Double sided adhesive tapes.....	9
8.1.2 Single sided adhesive tapes.....	9
8.2 Materials.....	9
8.3 Apparatus.....	9
8.4 Test samples and test pieces.....	9
8.5 Procedure.....	9
8.5.1 Double sided tapes.....	9
8.5.2 Single sided tape.....	9
8.6 Expression of results.....	10

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

8.7	Test report.....	10
Annex A	(normative) Self adhesive tapes — Measurement of peel adhesion from a surface at low temperature.....	11
Annex B	(normative) Self adhesive tapes — Measurement of peel adhesion from a surface at an angle of 90°	12
Bibliography		14

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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

This second edition cancels and replaces the first edition ([ISO 29862:2007](http://www.iso.org/iso/29862:2007)) of which it constitutes a minor revision.

The changes compared to the previous edition are as follows:

- the normative references in [Clause 2](#) have been updated;
- definitions have been added in [Clause 3](#) for “self adhesive tape”, “liner” and “double sided adhesive tape”;
- a Bibliography has been added;
- the text has been editorially revised to comply with the most recent editing rules.

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

This is a preview of "DS/EN ISO 29862:2019". Click here to purchase the full version from the ANSI store.

Self adhesive tapes — Determination of peel adhesion properties

1 Scope

This document specifies a series of methods for the determination of peel adhesion properties of self adhesives tapes.

This document contains:

- Method 1: Self adhesive tapes – Measurement of peel adhesion from stainless steel at an angle of 180°;
- Method 2: Self adhesive tapes – Measurement of peel adhesion from its own backing at an angle of 180°;
- Method 3: Self adhesive tapes – Measurement of peel adhesion of double sided and transfer tapes at an angle 180°;
- Method 4: Self adhesive tapes – Measurement of adhesion of the liner to an adhesive tape at an angle of 180°.

[Annexes A](#) and [B](#) specify further variations in the testing protocol according to specific conditions.

A guide to the use of these methods is given in [Table 1](#).

Table 1 — Methods and annexes

Method	Angle of peel	Temperature of test	
		23 °C	Low temperature
Method 1 Adhesion to steel	180°	—	Annex A
	90°	Annex B	-
Method 2 Adhesion to back- ing	180°	—	Annex A
	90°	Annex B	—
Method 3 Adhesion of double sided and transfer tape	180°	—	Annex A
	90°	Annex B	—
Method 4 Adhesion of liner	180°	—	Annex A
	90°	Annex B	-

NOTE 1 These methods provide a means of assessing the uniformity of the adhesion of a given type of self adhesive tape. The assessment may be within a roll of tape, between rolls or between production lots.

NOTE 2 Variations in the tape backing and adhesive affect the response. Therefore these methods cannot be used to pinpoint the specific cause(s) of non uniformity.

NOTE 3 These test methods may not be appropriate to test tapes having either relatively stiff backings, stiff liners or backing showing high stretch at low forces. These characteristics will result in a high variability for the test response which is not a true indication of the real nature of the adhesive bond.

This is a preview of "DS/EN ISO 29862:2019". [Click here to purchase the full version from the ANSI store.](#)

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

[EN 12481](#), *Self adhesive tapes — Terminology*