



NSAI
Standards

Irish Standard
I.S. EN 17271:2019

Plastics - Poly(vinyl chloride) (PVC) based profiles - Determination of the peel strength of profiles laminated with foils

I.S. EN 17271:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 17271:2019

Published:

2019-06-26

*This document was published
under the authority of the NSAI
and comes into effect on:*

2019-07-26

ICS number:

83.080.20

83.140.99

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 17271:2019 is the adopted Irish version of the European Document EN 17271:2019, Plastics - Poly(vinyl chloride) (PVC) based profiles - Determination of the peel strength of profiles laminated with foils

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

EN 17271

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

ICS 83.080.20; 83.140.99

English Version

**Plastics - Poly(vinyl chloride) (PVC) based profiles -
Determination of the peel strength of profiles laminated
with foils**

Plastiques - Profilés à base de poly(chlorure de vinyle)
(PVC) - Détermination de la résistance au pelage de
profilés avec des films plaxés

Kunststoffe - Profile auf Basis von Polyvinylchlorid
(PVC) - Bestimmung der Schälfestigkeit von mit Folien
kaschierten Profilen

This European Standard was approved by CEN on 12 May 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: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Principle	5
5 Apparatus and materials	5
6 Preparation of the test specimens	7
6.1 General	7
6.2 Method 1	7
6.3 Method 2	7
7 Conditioning.....	8
8 Test procedure	8
9 Evaluation and expression of results.....	8
9.1 General	8
9.2 Types of test results	8
9.2.1 Peel off.....	8
9.2.2 Foil rupture and/or foil elongation (stretch)	10
9.2.3 Mix of foil elongation (stretch), peel off and foil rupture	11
9.2.4 Increasing or decreasing peel force	12
9.2.5 Difference in direction of testing.....	13
9.3 Calculation and expression of results.....	13
10 Test report.....	14
Bibliography	15

European foreword

This document (EN 17271:2019) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by NBN.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

EN 17271:2019 (E)

1 Scope

This document specifies a test method for determining the peel strength of poly(vinyl chloride) (PVC) based profiles laminated with foils.

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 ISO 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system (ISO 7500-1)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 profile

product produced by extrusion

3.2 laminated profile

profile covered with a foil by means of adhesive

3.3 base profile

profile without foil

3.4 assembly

<adhesives> group of materials or parts, including adhesive, which have been placed together for bonding or which have been bonded together

[SOURCE: EN ISO 10365:1995, 3.1 [1]]

3.5 peel off

separation of foil from the base profile which results in adhesion failure (3.6) or cohesion failure (3.7)

Note 1 to entry: Foil rupture is not considered as peel off.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-