

**DIN EN 13491****DIN**

ICS 59.080.70; 91.100.50

Supersedes  
DIN EN 13491:2004-11  
See start of validity

**Geosynthetic barriers –  
Characteristics required for use as a fluid barrier in the construction of  
tunnels and underground structures (includes Amendment A1:2006)  
English version of DIN EN 13491:2006-10**

Geosynthetische Dichtungsbahnen –  
Eigenschaften, die für die Anwendung beim Bau von Tunneln und Tiefbauwerken  
erforderlich sind (enthält Änderung A1:2006)  
Englische Fassung DIN EN 13491:2006-10

Document comprises 36 pages

## **Start of validity**

This standard is valid from 1 October 2006.

DIN EN 13491:2004-11 shall remain valid until February 2007.

It should be noted that, in Germany, CE conformity marking of construction products will be permitted once this standard has been listed in the *Bundesanzeiger* (German Federal Law Gazette).

## **National foreword**

This standard has been prepared by CEN/TC 189 "Geosynthetics" (Secretariat: Belgium).

The responsible German body involved in its preparation was the *Normenausschuss Textil und Textilmaschinen* (Textiles and Textile Machinery Standards Committee), Technical Committee NA 106-01-11 AA *Geotextilien und Geokunststoffe*.

Amendment A1:2006 has been incorporated in this standard and is marked by a vertical line in the margin.

The DIN Standards corresponding to the International Standards referred to in clause 2 of the EN are as follows:

ISO 34-1	DIN ISO 34-1 Corrigendum 1
ISO 527-1	DIN EN ISO 527-1
ISO 527-3	DIN EN ISO 527-3
ISO 527-4	DIN EN ISO 527-4

It should be noted that draft European Standard prEN 14151 referred to in this standard has been withdrawn. The corresponding national standard is DIN 61551.

## **Amendments**

This standard differs from DIN EN 13491:2004-11 as follows:

- a) In clause 2, ISO 527-4 has been added to the normative references, and ISO 527-1 and EN 13493 have been dated.
- b) In Table 1, a new line concerning gas permeability has been added. Lines 5 and 6 of the last two columns have been revised.
- c) A new subclause 4.4.8 "Gas permeability" has been included.
- d) In B.7, second paragraph, the third indent has been amended.
- e) In B.8, the first paragraph has been added.

## **Previous editions**

DIN EN 13491: 2004-11

**National Annex NA**  
(informative)

**Bibliography**

DIN EN ISO 527-1, *Plastics — Determination of tensile properties — Part 1: General principles*

DIN EN ISO 527-3, *Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets*

DIN EN ISO 527-4, *Plastics — Determination of tensile properties — Part 4: Test conditions for isotropic and anisotropic fibre-reinforced plastic composites*

DIN ISO 34-1 Corrigendum 1, *Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 1: Trouser, angle and crescent test pieces, Corrigenda to DIN ISO 34-1:2004-07*