

DIN EN ISO 178



ICS 83.080.01

 Supersedes
 DIN EN ISO 178:2011-04

**Plastics –
 Determination of flexural properties (ISO 178:2010 + Amd.1:2013);
 English version EN ISO 178:2010 + A1:2013,
 English translation of DIN EN ISO 178:2013-09**

Kunststoffe –

Bestimmung der Biegeeigenschaften (ISO 178:2010 + Amd.1:2013);
 Englische Fassung EN ISO 178:2010 + A1:2013,
 Englische Übersetzung von DIN EN ISO 178:2013-09

Plastiques –

Détermination des propriétés en flexion (ISO 178:2010 + Amd.1:2013);
 Version anglaise EN ISO 178:2010 + A1:2013,
 Traduction anglaise de DIN EN ISO 178:2013-09

Document comprises 27 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.



A comma is used as the decimal marker.

National foreword

This document (EN ISO 178:2010 + A1:2013) has been prepared by Technical Committee ISO/TC 61 "Plastics" (Secretariat: SAC, China) in collaboration with Technical Committee CEN/TC 249 "Plastics" (Secretariat: NBN, Belgium).

The responsible German body involved in its preparation was the *Normenausschuss Kunststoffe* (Plastics Standards Committee), Working Committee NA 054-01-02 AA *Mechanische Eigenschaften und Probekörperherstellung*.

This standard includes Amendment A1 approved by CEN on 19 March 2013.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **h1** **A1**.

The DIN Standards corresponding to the International Standards referred to in Clause 2 of this standard are as follows:

ISO 291	DIN EN ISO 291
ISO 293	DIN EN ISO 293
ISO 294-1:1998	DIN EN ISO 294-1:1998-10
ISO 295	DIN EN ISO 295
ISO 2818	DIN EN ISO 2818
ISO 7500-1	DIN EN ISO 7500-1
ISO 9513	DIN EN ISO 9513
ISO 10724-1	DIN EN ISO 10724-1
ISO 23529	DIN ISO 23529

Amendments

This standard differs from DIN EN ISO 178:2011-04 as follows:

- Subclauses 5.5.1.1 and 5.5.1.2 have been completely revised and are now directly allocated to Subclause 5.5.1;
- Subclause 8.1 and Figure 5 have been completely revised;
- Subclause 8.2 has been revised with regard to the thickness (previously mean thickness);
- Clause 11 "Test report", item d) has been extended: "the shape and dimensions of the test specimens and, if applicable, the dimensions of the tips used".

Previous editions

DIN 53452: 1941-05, 1944-11, 1955x-02, 1977-04
DIN 53453: 1943-11, 1952-02, 1954-07, 1958-05, 1965-10, 1975-05
DIN 53457: 1968-05, 1987-06, 1987-10
DIN EN ISO 178: 1997-02, 2003-06, 2006-04, 2011-04

National Annex NA (informative)

Bibliography

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

DIN EN ISO 293, *Plastics — Compression moulding of test specimens of thermoplastic materials*

DIN EN ISO 294-1:1998-10, *Plastics — Injection moulding of test specimens of thermoplastic materials — Part 1: General principles, and moulding of multipurpose and bar test specimens*

DIN EN ISO 295, *Plastics — Compression moulding of test specimens of thermosetting materials*

DIN EN ISO 2818, *Plastics — Preparation of test specimens by machining*

DIN EN ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

DIN EN ISO 9513, *Metallic materials — Calibration of extensometer systems used in uniaxial testing*

DIN EN ISO 10724-1, *Plastics — Injection moulding of test specimens of thermosetting powder moulding compounds (PMCs) — Part 1: General principles and moulding of multipurpose test specimens*

DIN ISO 23529, *Rubber — General procedures for preparing and conditioning test pieces for physical test methods*