
**Dentistry — Bonding test between
polymer teeth and denture base
materials**

*Médecine bucco-dentaire — Test d'adhésion entre des dents en
polymère et le polymère pour base de prothèse*

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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

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Foreword

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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 106, *Dentistry*, Subcommittee SC 2, *Prosthetic materials*.

Dentistry — Bonding test between polymer teeth and denture base materials

1 Scope

This document specifies a test method for bonding of polymer teeth to denture base materials.

This test method is not designed to prove the properties of polymer teeth and denture base materials.

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.

ISO 1942, *Dentistry — Vocabulary*

ISO 6873, *Dentistry — Gypsum products*

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 20795-1, *Dentistry — Base polymers — Part 1: Denture base polymers*

ISO 22112:2017, *Dentistry — Artificial teeth for dental prostheses*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942, ISO 20795-1 and the following 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

adhesive fracture

fracture at the interface between the polymer tooth and the denture base materials

3.2

cohesive fracture

fracture in the body of the polymer tooth or the denture base materials

3.3

polymer teeth

artificial teeth made from polymer material

4 Bond between polymer teeth and denture base materials

4.1 General

This test method investigates the bonding of polymer teeth to denture-base materials.