

BSI Standards Publication

Dentistry — Bonding test between polymer teeth and denture base materials



National foreword

This Published Document is the UK implementation of ISO/TS 19736:2017.

The UK participation in its preparation was entrusted to Technical Committee CH/106/2, Prosthodontic materials.

A list of organizations represented on this committee can be obtained on request to its secretary.

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

© The British Standards Institution 2017 Published by BSI Standards Limited 2017

ISBN 978 0 580 87312 6

ICS 11.060.10; 97.170

Compliance with a British Standard cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 September 2017.

Amendments/corrigenda issued since publication

Date Text affected

PD ISO/TS 19736:2017

TECHNICAL SPECIFICATION

ISO/TS 19736

First edition 2017-09-01

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



PD ISO/TS 19736:2017 **ISO/TS 19736:2017(E)**



COPYRIGHT PROTECTED DOCUMENT

 $\, @ \,$ ISO 2017, 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

Contents			Page	
Fore	word		iv	
1	Scop	pe	1	
2	Normative references		1	
3	Tern	Terms and definitions		
4	Bone 4.1 4.2	d between polymer teeth and denture base materials General Apparatus and materials	2	
5	Proc 5.1 5.2 5.3	redure Preparation of test specimen Test procedure Evaluation	3	
6	Test report		6	

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 106, *Dentistry*, Subcommittee SC 2, *Prosthodontic 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