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FESTI STANDARDI FESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 20795-2:2010 sisaldab Euroopa standardi EN ISO 20795-2:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.04.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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Dentistry - Base polymers - Part 2: Orthodontic base polymers (ISO 20795-2:2010)

Art dentaire - Polymères de base - Partie 2: Polymères pour base orthodontique (ISO 20795-2:2010)

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 20795-2:2010) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.

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Endorsement notice

The text of ISO 20795-2:2010 has been approved by CEN as a EN ISO 20795-2:2010 without any modification.

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Introduction

Polymeric materials based on methacrylates have been widely used in the construction of both active and passive removable orthodontic appliances for many years. These removable appliances are mainly used in the orthodontic treatment of children. The method of preparing the polymeric part of the orthodontic appliance has several potential problems. Depending on the polymerization process and polymer/monomer mixing ratio, the polymer part of the removable orthodontic appliance may be weaker than if conventional flasking and heat systems of polymerization were used. There may be a greater risk that an appliance will have more residual substances such as monomers than a conventional heat-cured denture base polymer. In addition, a high monomer content of the polymer/monomer mix may cause increased contraction on polymerization.

Specific qualitative and quantitative requirements for freedom from biological hazard are not included in this part of ISO 20795, but it is recommended that, in assessing possible biological or toxicological hazards, Jis. reference be made to ISO 10993-1 and ISO 7405.

Dentistry — Base polymers —

Part 2:

Orthodontic base polymers

1 Scope

This part of ISO 20795 is applicable to orthodontic base polymers and copolymers used in the construction of both active and passive orthodontic appliances and specifies their requirements. It also specifies test methods to be used in determining compliance with these requirements. It further specifies requirements with respect to packaging and marking the products and to the instructions to be supplied for use of these materials.

2 Normative references

The following referenced documents are indispensable for the application 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 3696, Water for analytical laboratory use — Specification and test methods

ISO 7491, Dental materials — Determination of colour stability

ISO 8601, Data elements and interchange formats — Information interchange — Representation of dates and times

ISO 20795-1:2008, Dentistry — Base polymers — Part 1: Denture base polymers

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942 and the following apply.

3.1

autopolymerizable materials

products having polymerization initiated by chemical means and not requiring application of temperatures above 65 °C to complete the polymerization

3.2

build up technique

spray on technique

gradual addition of increments of powder and liquid on the master cast until the desired shape is attained

3.3

immediate container

container that is in direct contact with the (orthodontic) base materials

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