ISO 20795-2:2010-03 (E)

Dentistry - Base polymers - Part 2: Orthodontic base polymers

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Classification 2

5 Requirements 2
5.1 Unpolymerized material 2
5.2 Polymerized material 3

6 Sampling 5

7 Preparation of specimen plates and test specimens 5
7.1 Laboratory environment 5
7.2 Procedures 5
7.3 Special equipment 5

8 Test methods 6
8.1 Inspection for compliance determination 6
8.2 Colour 6
8.3 Polishability, freedom from porosity, ultimate flexural strength and flexural modulus 6
8.4 Fracture toughness with a modified bending test 10
8.5 Residual methyl methacrylate monomer 14
8.6 Plasticiser(s), where applicable 19
8.7 Water sorption and solubility 23

9 Requirements for labelling, marking, packaging and instructions supplied by manufacturer 25
9.1 Packaging 25
9.2 Marking of outer packages and containers 26
9.3 Manufacturer's instructions 27

Annex A (normative) HPLC method for determination of MMA content 28

Bibliography 31