

ISO 20795-1:2013-03 (E)

Dentistry - Base polymers - Part 1: Denture base polymers

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Classification	3
5	Requirements	3
5.1	Unpolymerized material	3
5.2	Polymerized material	4
6	Sampling	6
7	Preparation of test specimens	6
7.1	Laboratory environment	6
7.2	Procedures	7
7.3	Special equipment	7
8	Test methods	7
8.1	Inspection for compliance determination	7
8.2	Packing plasticity	7
8.3	Colour	9
8.4	Colour stability	10
8.5	Polishability, translucency, freedom from porosity, ultimate flexural strength, and flexural modulus	12
8.6	Fracture toughness with a modified bending test	17
8.7	Bonding to synthetic polymer teeth	21
8.8	Residual methyl methacrylate monomer	22
8.9	Water sorption and solubility	27
9	Requirements for labelling, marking, packaging, and instructions supplied by the manufacturer	29
9.1	Packaging	29
9.2	Marking of outer packages and containers	30
9.3	Manufacturer's instructions	31
Annex A (normative)	HPLC method for determination of MMA content	32
Bibliography		35