

# ISO 20795-1:2013-03 (E)

## Dentistry - Base polymers - Part 1: Denture base polymers

---

<b>Contents</b>		<b>Page</b>
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