

# ISO 20795-2:2013-03 (E)

## Dentistry - Base polymers - Part 2: Orthodontic base polymers

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Classification .....</b>	<b>2</b>
<b>5</b>	<b>Requirements .....</b>	<b>2</b>
<b>5.1</b>	<b>Unpolymerized material .....</b>	<b>2</b>
<b>5.2</b>	<b>Polymerized material .....</b>	<b>3</b>
<b>6</b>	<b>Sampling .....</b>	<b>5</b>
<b>7</b>	<b>Preparation of specimen plates and test specimens .....</b>	<b>5</b>
<b>7.1</b>	<b>Laboratory environment .....</b>	<b>5</b>
<b>7.2</b>	<b>Procedures .....</b>	<b>5</b>
<b>7.3</b>	<b>Special equipment .....</b>	<b>5</b>
<b>8</b>	<b>Test methods .....</b>	<b>5</b>
<b>8.1</b>	<b>Inspection for compliance determination .....</b>	<b>5</b>
<b>8.2</b>	<b>Colour .....</b>	<b>6</b>
<b>8.3</b>	<b>Polishability, freedom from porosity, ultimate flexural strength, and flexural modulus .....</b>	<b>6</b>
<b>8.4</b>	<b>Fracture toughness with a modified bending test .....</b>	<b>10</b>
<b>8.5</b>	<b>Residual methyl methacrylate monomer .....</b>	<b>14</b>
<b>8.6</b>	<b>Plasticiser(s), where applicable .....</b>	<b>19</b>
<b>8.7</b>	<b>Water sorption and solubility .....</b>	<b>23</b>
<b>9</b>	<b>Requirements for labelling, marking, packaging, and instructions supplied by manufacturer .....</b>	<b>26</b>
<b>9.1</b>	<b>Packaging .....</b>	<b>26</b>
<b>9.2</b>	<b>Marking of outer packages and containers .....</b>	<b>26</b>
<b>9.3</b>	<b>Manufacturer's instructions .....</b>	<b>27</b>
<b>Annex A (normative) HPLC method for determination of MMA content .....</b>		<b>28</b>
<b>Bibliography .....</b>		<b>31</b>