IvoBase® Material
The innovative denture base material

Tissue friendly, tough, predosed
IvoBase® Material

The fabrication of every quality prosthetic appliance begins with quality basic products, such as the newly developed IvoBase® Material from Ivoclar Vivadent. This product is available in two different predosed versions: IvoBase Hybrid and IvoBase High Impact. These self-curing PMMA-based materials combine the benefits of self-curing polymers with those of heat-curing polymers. They define a new generation of denture base resins with their high precision, quality and efficiency.

IvoBase Material shows a very low amount of monomer residue shortly after polymerization. Due to pressure-heat polymerization, a strong bond to the teeth is established. Precision results are attained quickly with the IvoBase Injector.

After 35 years of producing quality prosthetic appliances, I can say that the IvoBase material is without doubt one of the best injectable materials that we have ever used here at Egan Dental Laboratory.

It gives outstanding results, both in the fit and stability without compromise, time after time.

Richard Egan, DT, Great Britain
Reliability
The smooth surface exhibits very low plaque affinity and ensures high shade stability.

Precision
Excellent basal and occlusal fit due to shrinkage compensation.

Consistent quality
IvoBase denture bases can be repaired with IvoBase materials to ensure reproducible results.

The system is at the center
The equipment and the material form an integrated system, which is ultimately the key to success. The IvoBase system is used to fabricate high-quality denture bases for conventional dentures as well as implant-supported dentures, at the press of a button. What is more, the equipment is highly efficient due to the fully automatic process.
Denture base material of the future

IvoBase Hybrid
- Fast
  Polymerization in 35 minutes
- Safe and clean
  No skin contact with the monomer
- Predosed
  Always the ideal mixing ratio
- User friendliness
  Outstanding clinical and processing properties

IvoBase High Impact
- Fracture toughness
  Enables the fabrication of delicate denture bases
- Ideal for high loading
  Suitable for structures that are subjected to heavy loading
- Longevity
  Reduced susceptibility to damage
- Short processing time
  Polymerization in 50 minutes

IvoBase Hybrid
For all removable dentures

IvoBase High Impact
For exceptionally high stability requirements

The standard and how IvoBase lives up to it.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Type 2, Class 1 (the standard)</th>
<th>Example for IvoBase Hybrid</th>
<th>Example for IvoBase High Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural strength MPa</td>
<td>&gt; 60</td>
<td>81</td>
<td>74</td>
</tr>
<tr>
<td>Flexural modulus MPa</td>
<td>&gt; 1500</td>
<td>2700</td>
<td>2360</td>
</tr>
<tr>
<td>Residual monomer content in %</td>
<td>&lt; 4.5</td>
<td>1.4</td>
<td>1.3</td>
</tr>
<tr>
<td>Residual monomer content in % with RMR*</td>
<td>–</td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>Water absorption µg/mm³</td>
<td>≤ 32</td>
<td>22.8</td>
<td>21.6</td>
</tr>
<tr>
<td>Solubility µg/mm³</td>
<td>≤ 8.0</td>
<td>&lt; 0.1</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>Fracture toughness (Kmax) MPa m¹/²</td>
<td>&gt; 1.9</td>
<td>–</td>
<td>2.37</td>
</tr>
<tr>
<td>Tensile energy absorption (Wf) J/m²</td>
<td>&gt; 900</td>
<td>–</td>
<td>1450</td>
</tr>
</tbody>
</table>

According to EN ISO 20795-1:2008 Dentistry – Denture base polymers
* Residual monomer reduction
Ivobase High Impact is currently the only self-curing polymer that fulfils the requirements of high impact resistant materials according to EN ISO 20795-1:2008.
IvoBase® forms a part of the “Removable Prosthetics” product category. The products of this category cover the procedure involved in the fabrication of removable dentures – from treatment planning and impression taking to aftercare. The products are optimally coordinated with each other and enable successful processing and application.

Would you like to know more about the products of the “Removable Prosthetics” category? Simply get in touch with your contact person at Ivoclar Vivadent or visit www.ivoclarvivadent.com for more information.