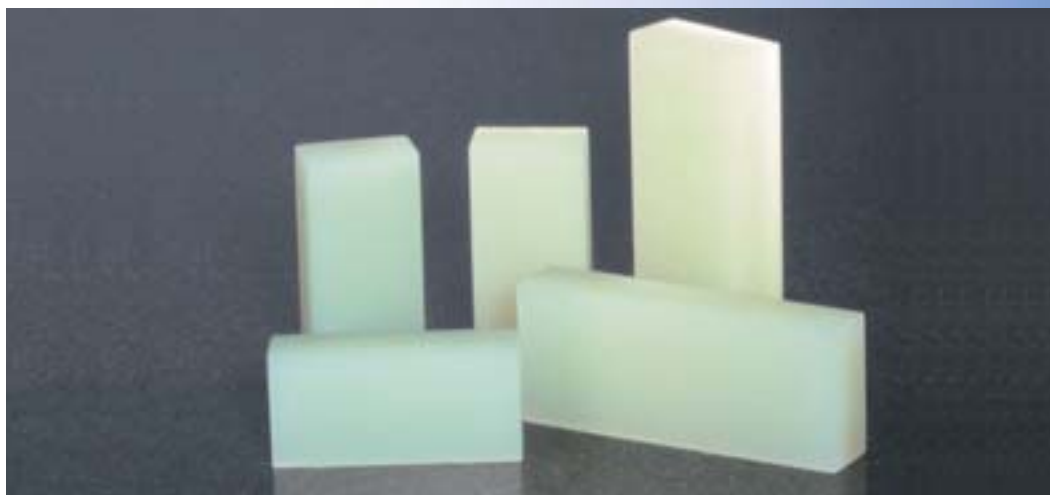


Processing instructions
KaVo Everest® C-temp.



Leading the way in materials technology



KaVo. Dental Excellence.

Information on materials

Fibreglass-reinforced polymer from a materials science perspective

The new generation of dental framework materials are fibreglass-reinforced polymers. However, there are numerous differences in composition, strength and aging.

Kavo Everest® C-temp consists of continuous molecular chains that increase the strength of the polymer to more than 500MPa which makes it suitable for use over long spans. This strength means that the patient can wear the provisional for long periods (defined as 3-12 months).

The solubility and water absorption of the polymer are low, therefore, no difficulties arise while worn in the mouth.

The large amount of glass in this material ensures a very strong adhesive bond between the framework material and conventional veneer plastics.

C-temp provisionals made using CAD/CAM also have the following advantages:

- Less weight means increased wearing comfort
- Slow to react to physiological solutions
- Reproducibility of the results, no change in the material properties, and manufactured with optimized properties (structure)
- Conventional veneer plastics can be used on it
- Radiolucent

KaVo Everest® C-temp blanks are industrially-manufactured polymer blanks with an ideal, homogeneous structure.

Technical data of the KaVo Everest® Polymers

- Flexural strength 500 MPa
- Chemical solubility 0,55 µg/cm³
- Water absorption 9,6 µg/cm³
- Bending modulus 20 000 MPa
- Adhesive bond (GC Gradia) > 20 MPa
- Adhesive bond (Ivoclar Adoro) > 18 Mpa
- Mat. No.: 1.003.9217 size: 42x20x20 (LxWxH)
- Mat. No.: 1.003.9218 size: 60x25x20 (LxWxH)

Indications for the KaVo Everest® C-temp

- Provisional, veneered crowns in the anterior and posterior areas
- Provisional, veneered bridges with up to 14 elements
- Long-term provisional of crowns and bridges wearable up to 12 months

Contraindication

- Provisional is to be worn longer than 12 months
- For unveneered, unvarnished crowns and bridges
- The bar cross section minimum is 7mm² in the anterior area
- The bar cross section minimum is 9mm² in the posterior area

The frameworks made from the Everest® C-temp blanks can be individually veneered with veneer plastics by GC/Gradia und Ivoclar/Adoro.

Preparation basics

Any type of preparation can be used for a suitable C-temp restoration.

All transitions from the axial to occlusal to incisal surfaces should be rounded 1 mm.

KaVo has developed a preparation set together with Hager & Meisinger.

For more information on preparations, see also the separate brochure,

"Preparation Basics."
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Preparing the model

The models and dies are prepared according to conventional casting criteria. Observe care in preparation to ensure a precise fit later.

All model segments must be designed to be removable. They must easily release from the base to prevent inaccuracies when later removing the individual dies in the scanner.

A conventional plaster base is recommendable. Do not use white or reflective plates since they can negatively influence measurement.

It is essential to use Everest Rock (100g: 20 ml) to manufacture the dental arch. Other plasters can impair measurement.

The preparation margin should be exposed at a 90° angle. Sharp angles can cause a loss of data at these sites.

Waxing out undercuts and rounding sharp-edged preparations to ensure a greater accuracy. This can be done with Everest Scan Wax or a light-hardening opaque plastic.

The dies must not be treated before scanning. Do not use die varnish, spacer or hardener.



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