

## PREMIOtemp CLEAR FLEX instruction manual

### Product description

PREMIOtemp CLEAR FLEX PMMA blanks are thermoplastic, homogeneous high-polymer milling discs used to produce bite splints in dental CAD/CAM milling machines.

A bite splint milled from PREMIOtemp CLEAR FLEX blanks is self-adjusting at body temperature, resulting in a well-adapted, tension-free fit in the patient's mouth. The material is transparent and break-proof.

### Indication:

Fabrication of therapeutic bite splints as well as reflex-, positioning- and stabilizing splints with dental CAD/CAM milling systems for short term usage\*.

### Working instructions:

#### CAD design and CAM nesting:

The wall thickness of a PREMIOtemp CLEAR FLEX bite splint must be 1 mm at minimum. Occlusally the thickness of the final bite splint needs to be not less than 0.9 mm!

A sufficient number of holder bars (in average 8 bars each labially and lingually) must be placed during the nesting stage. Since the material is thermoactivated, an insufficient number of bars could lead to distortion of the bite splint during milling. This in turn could lead to milling bur breakage.

#### CAD/CAM milling and finishing:

PREMIOtemp CLEAR FLEX blanks can be milled wet or dry, ideally with one-flute burs for PMMA. To remove the milled restoration from the milling blank, the holder bars are cut off with a fine cross-cut tungsten carbide bur. If necessary, to finalize the splint, regular cross-cut carbide burs and/or cutting discs for acrylic finishing are used.

### Polishing:

PREMIOtemp CLEAR FLEX bit splints are polished with conventional brushes and compounds for acrylic.

Excessive heat generation during polishing always needs to be avoided. Careful high-shine polishing is necessary to achieve a perfectly smooth surface, thus avoiding plaque accumulation and its negative consequences.

### Cleaning:

For cleaning, the finished bite splint is placed in a water filled ultrasonic cleaning unit for one minute at 35°C (95 °F). Cleaning solutions and denture cleaners are not recommended. Steam cleaning results in heat and compressive stress and must be avoided.

### Storage conditions:

PREMIOtemp CLEAR FLEX blanks should be stored in a dry place. Storage temperature: -18°C to +33°C (0-91 °F).

### Safety instructions:

1. PREMIOtemp CLEAR FLEX PMMA Blanks may only be worked on under a local work bench dust suction unit.
2. Wear dust mask and protective glasses to prevent dust particles entering mouth and eyes or having contact with the mucosa.
3. Users who react allergic to acrylic resin materials should be especially careful when working with PREMIOtemp.
4. A PREMIOtemp bite splint must be thoroughly cleaned, before it is inserted in the patient's mouth. To avoid taste irritation, the manufactured splint should be watered for 24 hours.
5. PREMIOtemp CLEAR FLEX was especially developed as a material for bite splints in dentistry and must only be used by dental professionals as intended. The material is not suitable for denture bases.
6. A milled PREMIOtemp CLEAR FLEX bite splint can only be used for the one patient it was made for.
7. The PREMIOtemp CLEAR FLEX material is water-insoluble, inactive and have no negative effect on ground water. Therefore it can be disposed in normal household garbage.

8. PREMIOtemp is to be kept out of the reach of children.

### Care instructions for the patient:

The PREMIOtemp CLEAR FLEX splint should be cleaned under running water with toothpaste after each use. Store your bite splint in a dry and dark place if not worn.

Do not use denture cleaners / alcohol-based cleaners. Place the bite splint in warm water at 40-50 °C for 1-2 minutes before insertion.

Protect the splint from extreme heat and coldness

### Technical data:

Chemical composition in %  
Poly(m)ethyl acrylate and cross-linked  
copolymers of methacrylic acid > 90  
1,2-cyclohexane dicarboxylic acid diisononyl ester < 10

### Material data:

Flexural strength (23°C)	> 20 MPa
Flexural strength (37°C)	< 20 MPa
Density	approx. 1.1 to 1.2 g/cm <sup>3</sup>
Color	transparent

### Manufacturer:



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Expiration date



Lot number



Read instructions

