

PF KEEP® | INSTRUCTIONS FOR USE

Product Description

PF KEEP® is a thermoplastic polymer, made from the polymer PEEK, is available as granular material (so called pellets) contained in plastic box with 45g. that are used for manufacture of removable dental protheses. In case of PF KEEP CAD CAM PEEK BLOCK is for used with CAD CAM techniques. The material is provided non-sterile, without any accessories and is a single use.

Indications for Use

PF KEEP / CAD CAM PEEK BLOCK are a thermoplastic material. They are intended to be used for manufacture of:

- I. Full and partial removable dentures and implant over-dentures.
- II. Copings, substructures (cemented or uncemented), frameworks for permanent and transitional anterior or posterior crowns and bridgeworks.

Contraindications

It is not possible to reuse the milled resin resulting from the processing of the discs.

Warnings and Cautions

When working with PF KEEP® it is necessary to wear protective glasses and suitable protective clothing.

Vapors generated during material processing should not be inhaled.

Adverse Effects

There are no adverse effects if the necessary precautions are taken and listed in the Instructions for Use.

The material should only be used by personnel highly trained in handling PF KEEP®.

Storage

Store in a dust-free and dry place, protected from moisture. The material resists environmental non extreme temperatures such as 10° – 40° C but optimal storage temperatures are 15° – 20° C.

Expiration Date

PF KEEP® resin has an expiration date of 36 months.

Instructions for Use

I. Attachment selection.

- A. Model Selection.
- B. Carry out the milling of the abutment and mechanical retentions.
- C. Sandblast the abutment with 50 micron aluminium oxide and 3 bar pressure to create micro retentions.

II. Waxing up.

- A. Blocking out models with wax.
- B. Application of separating agent.
- C. Structure building with resin.
- D. Photo-polymerize for 60 seconds.

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- E. Remove superficial layer of oxygen with liquid acrylic.
- F. Perform anatomical wax-up on the metal abutment.

III. Placement of chimney and anti-occlusion chimney.

- A. Put sticky wax on the stem of the base.
- B. Mark placement quadrant on the base.
- C. Placement of the injection sprue with a length of 3mm and a diameter of 3mm, at an angle of 45° to 60°.
- D. Placement of the accessory chimney, which relieves stress and is useful to verify that the injection has been successful.
- E. Placement of anti-occlusion chimney with a diameter of 1mm which goes through the adjunct from side to side.

IV. Investing.

- A. Take the silicon cylinder to border your model and identify which injection base you will use.
- B. Place the silicon cylinder on the injection base and make sure that it is in firm contact with the base without displacement.
- C. Before placing the lining, verify that the cover fits snugly and that it enters the diameter formed by the silicon cylinder.
- D. Verify that there is a perfect seal and that the edges of the

silicon cylinder have not been misaligned.

- E. Coating, the use of PF KEEP® coating is recommend.
- F. Let it set for 45 minutes. After the first 5 min cut the upper lid.
- G. After 45 minutes of coating, remove the base lower. An indicator that the coating process is complete is that it is completely cold to the touch.
- H. Remove the silicon cylinder and cut the base of the cylinder to later inject.

V. Dewaxed.

Place the cylinder inside the furnace and follow the temperature chart below.

PF KEEP® temperatures for dewaxing

Base Temperature	17° - 20° C 62.6° - 68° F
Rise Temperature	17° C/min 62.6° F/min
Final Temperature	850° C 1562° F
Dewaxing Temperature	1 hour 5 minutes
Drop Temperature	17° C/min 62.4° F/min
Temperature to place the resin	390° C 734° F

VI. Injection.

- A. Place the rod inside the cylinder.

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- B. For the correct injection of PF KEEP®, follow the formula (use the appropriate one depending on your case), as well as the correspondent tables of temperature.

Formula for the injection of individual and removable restorations with PF KEEP® resin.

[Wax Weight $\times 1.31 \times 2$ = quantity of PF KEEP® resin]

Formula for the injection of bars with PF KEEP® resin.

[Wax Weight $\times 1.8$ = quantity of PF KEEP® resin]

PF KEEP® temperatures for injecting 100g cases with the PF KEEP® press.

Basic Temperature	390° C 734° F
Final Temperature	390° C 734° F
Maintenance Time	18 minutes
Cooling Time	60 minutes

PF KEEP® temperatures for injecting 400g-500g cases with the PF KEEP® press.

Basic Temperature	390° C 734° F
Final Temperature	390° C 734° F
Maintenance Time	22 minutes
Cooling Time	60 minutes

PF KEEP® temperatures for injecting 100g cases with pressing furnace.

Basic Temperature	390° C 734° F
Rise Temperature	60° C 140° F
Final Temperature	390° C 734° F
Maintenance Time	22 minutes
Injection Time	1 minute

Injection Pressure

4.5 bar

VII.Recovery.

- Mark the model with the help of a vector key.
- With the trimmer, abrade the model and recover the injection using a sandblaster or sandblaster with 50 micron aluminum oxide beads with 3 bar pressure.
- Trim throughs and chimneys with a flexible diamond disc.

VIII.Detail and Polishing.

- Detailed and polished with burs.
- Sandblast at a pressure of 3 bar and 50 microns at specific distance of 1cm to create a mechanical etch.
- Silanize, it can be done with acetone applying it and letting it dry for 1 minute.
- Place adhesives without polymeric loads on the entire restoration.
- Light cure for 60 seconds.
- Apply the ceromer of your choice on the restoration according to your application method.
- Polish the restoration.

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The manufacturer declines any responsibility derived from damage caused by not following what is indicated in the instructions of use.



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