

IMPORTANT SAFETY INFORMATION

Inhalation: Avoid breathing vapors from heated material. In case of inhalation, immediately move to fresh air. Evaluate need for artificial respiration and seek immediate medical attention.

Eyes: If contact occurs, Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

Skin: The product is not skin irritating.

If contact with the molten product, cool rapidly with cold water.

Do not pull solidified product away from the skin. Cover affected area with clean cotton sheeting or gauze and obtain prompt medical attention.

MSDS at: www.perflexltd.com

Dear Customer,

Thank you for choosing our top innovative line of thermoplastic materials for aesthetic dentures.

Our product line will provide you with countless options, to create aesthetic designs and comfort for your patients.

For any question, please feel free to contact us.

We are dedicated to providing you with excellent products, service and support.

Manufactured by Perflex Ltd.

ISO:13485:2003, ISO: 9001:2008



Registered by: Acc. 93/42 EEC – MHRA IN UK

For reorder refer to Perflex Catalog.

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The Natural Choice

Perflex Biosens[®]

Semi-flexible denture base thermoplastic for injection molding systems.

Fast and easy polishing process
Homogeneous and smooth surface

Chemical Composition:

Super Polyamide, Thermoplastic Compound

Class I according to EEC/93/42

Product form: Pellets

For professional use only.

Features:

- ◆ **Metal Replacement Thermoplastic for all kind of dentures**
- ◆ **Bonds to conventional acrylics**
- ◆ **Biocompatible - Non-allergic, does not contain colored fibers**
- ◆ **Aesthetic**
- ◆ **Transparent**
- ◆ **No shrinkage after injection**
- ◆ **Immediate comfort**
- ◆ **High impact resistance**
- ◆ **Excellent Dimensional Stability & elastic memory**
- ◆ **Light Weight**
- ◆ **High color stability**
- ◆ **Very low water absorption**
- ◆ **Repairs: Fuse liquid technique**

Applications

For the production of thermoplastic removable frame works, Partial Dentures, Full Dentures, Over-Dentures on implants, Mini Dentures, Unilateral Dentures, Space maintainers, TMJ splints, Night guards, Clasps.

Perflex Biosens® can be repaired and relined by the fuse liquid technique (chemical) or with conventional acrylics hard or soft cold or heat cure techniques.

COLORS:

Light Pink, Standard Pink, Purple Pink, Clear Transparent and Opaque Pink.

RECOMMENDED PARAMETERS FOR INJECTION MOLDING ON SMART 101 AUTO-INJECTOR MACHINE:

Temperature	300°C
Time	18 Min
Pressure	8 - 9.5 Bar
Cooling under pressure	5 Min *with furnace switched off

Parameters for other types of injectors:
www.perflexltd.com, under: "Technical Manuals".

INSTRUCTIONS

1. At the wax-up stage, provision must be made for a Flattened 5mm red-double sprue at the center of the denture and a single sprue on both sides of the denture.
2. After investment and boilout, proceed with suitable preparation holes for retention on the artificial acrylic teeth.
3. Glue the artificial acrylic teeth into the gypsum cavities.
4. Turn on the SMART 101-400 Super injector furnace and set program: temperature to 300°C for 18min.
5. Lubricate the cartridge with LUBRIGEL - high heat resistant tube lubricant, taking care not to touch the top or bottom of the cartridge with lubricant.
6. When the Furnace reaches 300°C, Now insert the lubricated cartridge with its cap facing outwards into the furnace.
7. Pre-heat the 2 halves of flask in a bath of boiling water (100°C).
8. 5 - 8 minutes (depending on injector machine) before injection, wear protective heat resistant gloves, take out the flask from boiling water, dry out the remaining water, and Place isolating separator liquid ISOSEP FILM 2 coats, and ISOSEP OIL 1 coat on to Plaster surfaces corresponding to the Denture area only.
9. Close the flask with 4 screws, place into the Injector Machine, 1 min. before injection or when alarm sounds.
10. At 18 min. mark inject the material.
11. Keep the flask inside the injector to cool under

pressure (furnace switched off) for 3-5min.

12. Release the flask from the unit, and bench-cool to Lukewarm close to room temperature.

13. Deflask and proceed with processing and polishing as for thermoplastic materials, using POLIFAST PUMICE, BLUE BAR pre-polish and - WHITE BAR for a High-shine luster finishing polish.

IMPORTANT

For detailed information on the Construction of thermoplastic prosthetics, please consult the manual or your local dealer.

For correct use of the material, along with the entire line of PERFLEX thermoplastic compounds we strongly recommend PERFLEX'S training courses, at PERFLEX LABORATORY and at authorized dealers.

WARNINGS

Inject the material when flasks are still hot.

Melt **Perflex Biosens®** according to manufacturer's instructions for your type of furnace.

Proceed as with other thermoplastic nylons systems for the standard methods, practices and polishing techniques. Pay attention on the pre-heating process and heating parameters that are not the same as for conventional nylons.

Do not use higher temperatures than the recommended ones as there is a risk that the material could suffer heat decomposition which can cause dangerous fumes.

Always and only use virgin material.

Do not mix with leftover pieces from previous melted material, which could pollute the material, compromising its physical and mechanical characteristics.

STORAGE

Store in cool, dry place in tightly closed containers, at room temperature. Make sure that the jar is well sealed after removing material each time.

If the material is moist, the cartridge could be opened during heating time inside the furnace, in this case we recommend to dry the material or the full cartridge 40°C – 60°C degrees for 6 hours prior to use in a regular stove.

Do not expose to sunlight.

Keep away from sources of heat and combustible materials. Keep out of the reach of children!

CLEANING

Prosthetics manufactured of **Perflex Biosens®** may be cleaned and disinfected Using **Flexi Clean® Concentrated Denture Cleaner Powder** a product of **Perflex Ltd.**