Removable Retainers

Great Lakes fabricates a large variety of removable appliances designed for retention or minor tooth movement. The components and accessories outlined on pages 2 and 3 give you a myriad of design options. You will also see a wide selection of choices in colors and patterns offered to promote patient cooperation.

QCM Appliance (shown soldered to Adams clasps)

A118

The redesigned QCM labial bow still features an inconspicuous clear facial component, making it ideal for patients who are concerned about aesthetics. The new design allows the labial component to be removed and replaced in case of breakage or discoloration without the need for a new appliance. It can be screwed on easily to the posterior wire component and can still be refitted if necessary by heating the facial surface.

Acrylic Features:

1. Anterior Bite Plate - used to open the bite and disclude posterior teeth.
2. Posterior Bite Plate - used to open the bite.
3. Upper Incline Bite Plate - used to reposition the mandible forward.
4. Lower Incline Bite Plate - used to guide the maxillary anteriors out of cross bite.

Our standard fabrications include:

- **Appliance Identification** - The patient's name is permanently sealed into the acrylic when possible.
- **Duraloy Wire** - Extra strong with twice the breakage resistance of stainless steel.
- **Reinforced Solder Joints** - When possible, wires are reinforced with banding material before soldering to prevent breakage and protect solder from erosion in the mouth.

Biocryl II (Thermal Formed Material) - We have a variety of color choices available. Please indicate your color preference on your prescription: Red, Blue, Green, Purple, Light Pink, Light Blue, or Clear.

Please consult the following pages for all your color and pattern options.

Fabrication Requirements:

When forwarding a Removable appliance to the laboratory, we suggest the following:

1. Stone work model.
   - NOTE: Thickness of the base should be 7mm in the deepest portion of the palatal area.
2. Opposing arch should be included with any case where occlusal interference of clasps is a concern.
3. A wax bite should be included when a bite plate is to be added, as well as the opposing model.
Custom Patterns
When patients have choices, compliance improves. Let your patients personalize their appliances with color or pattern options.

Glitters (cold cure)
These are available in Multicolor, Silver, Gold, Red, or Blue. They show up best in any transparent or semi-transparent color option shown.

Stardust (cold cure)
Available in any “Rainbow” color option shown.

Polka Dot (cold cure)
Choose any base color and we will place multicolored dots inside unless otherwise noted.

Glitters:
- Multicolor
- Silver
- Gold
- Red
- Blue

Stardust:
Available in “Rainbow” color options.

Polka Dot:
Choose any base color, and we will place multicolored dots inside unless otherwise noted.

Decals (Can be added to cold cure or Biocryl retainers.) We have dozens of designs. Plus, we can incorporate just about any picture your patients may want. If it fits into a space the size of a penny, we can use it. Just send the picture along with the case.

Creatures Big & Small
- Various animal designs

Sports & Activities
- Various sports and fitness icons

Graphics & Symbols
- Various symbols and icons

The Elements
- Various elemental designs

Note: Actual decal sizes shown may vary according to individual appliance fabrication requirements.
of decals to suit any patient’s interest or such as a favorite sports star or team logo. with your case!

**Tropical Tones**
- Bright, vibrant colors
- Semi-transparent to opaque, depending on color chosen
- Cold cure

- Ocean Blue
- Mango Orange
- Paradise Pink
- Banana Yellow
- Lava Red
- Key Lime Green
- Tidewater Teal
- Purple Sunset

**Contemporary**
- “Taffy-like” colors
- Opaque
- Cold cure

- Snow White
- Tangerine
- Licorice
- Lemon
- Blueberry
- Apple Red
- Lime

**Neon Glow**
- Glow in the dark
- Opaque
- Cold cure

- Glow
- Blue
- Green
- Yellow
- Strawberry
- Pink
- Orange
- Purple
- Teal

**Rainbow**
- Standard “Color Wheel” colors
- Transparent, like colored glass
- Cold cure

- Red
- Green
- Clear Blue
- Clear
- Yellow
- Dark Blue
- Orange
- Purple
- Clear Pink
**Biocryl**
- Standard “Color Wheel” colors
- Transparent, like colored glass
- Thermal-formed Biostar® discs

- Pink
- Dark Blue
- Red
- Clear
- Green
- Purple
- Light Blue

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**Summer Shades Biocryl**
- Bold and beautiful bright colors
- Thermal-formed Biostar® discs

- Coral Red
- Fresh Limon
- Cool Orange
- Sky Blue
- Hot Pink

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**Patterned Biocryl**
- “Consistent pattern quality
- Thermal-formed Biostar® discs

- Polka Dot
- Rainbow
- Desert Camouflage
- Zebra
- Tiger

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**Glitter Biocryl**
- Even glitter distribution
- Thermal-formed Biostar® discs

- Radiant Red
- Starlight Silver
- Emerald Green
- Pacific Blue
- Multicolor

Appliances made from Biocryl discs are fabricated on the Biostar® positive pressure thermal-forming machine. The Biostar provides flawless adaptation by using a combination of positive pressure and forming the heated side of the material over the model. The Biostar and MINISTAR S®, the economical Biostar alternative, also can be purchased through our Products Division.
Invisible Retainer
A127
Initially designed for temporary retention, improvements in materials have led to Invisible Retainers lasting longer and becoming the option of choice for the appearance-conscious patient. They can be used to align a maximum of two teeth per arch with 1mm of movement per tooth. A number of Invisible Retainers can be fabricated over a series of setups to achieve greater tooth movement without wires. It is highly recommended to provide a PVS (Poly Vinyl Siloxane) impression to maintain model accuracy due to multiple pours.

Essix™ Retainer
A128
The Essix™ Invisible Retainer is a cuspid-to-cuspid version of the standard full arch appliance. Minor tooth movement is possible.

*Bessix™ is a trademark of RainTree Essix, Inc.

Bonded Retainer
B143
Bonded Retainers offer the advantages of being inconspicuous as well as hygienic. Two or more bonds may be utilized according to individual preference. Indirect delivery trays are also available.

Krause Retainer
B136
Used to stabilize excessively mobile upper and lower anterior teeth. The Krause appliance is constructed with bondable mesh pads connected by wire spines. The appliance can be adapted to the surface of the enamel or recessed into the teeth, depending on occlusal considerations.

Bleaching Tray
A114
A common style of bleaching tray is similar in construction to an athletic mouthguard. Die relief is placed on the labial surface of the teeth as specified on the prescription, usually 5-5. This allows for a space between the tooth surface and the appliance for holding the bleaching agent during wear.

Further variation of this design was developed by Dr. Ronald Lemon, Louisiana State University. His design (pictured) calls for the use of “Durasoft” material instead of mouthguard material. Durasoft is soft against the dentition and hard against the opposing arch, providing a more stable tray. Its use offers greater patient comfort and minimizes gingival irritation due to leakage because of its close, contoured fit. The Lemon Bleaching Tray can be requested two ways: marginal (standard) 2mm above the gingival margin, or scalloped for patients with periodontal disease or tissue sensitivity.