

Instructions for Thermoplastic

INSTRUCTIONS FOR USE

Reusable/Disposable head and neck frames

1. Adjust water bath temperature to between 160° and 170° F.
2. Set baseplate on treatment table with suitable head and neck support.
3. Position patient on table.
4. Place the frame into heated water until thermoplastic becomes completely transparent (about 1-2 minutes).
5. Lift the frame from water and quickly shake off excess water. Feel thermoplastic to be sure that it is not too hot.
6. Center the frame over the patient's face. Tilting slightly downward at the chin, gently and steadily press the thermoplastic down, over the patient's face, until the outer frame touches the baseplate. Align frame holes to pins in the baseplate and lock in position with swivel clamps.
7. With your fingers, gently and quickly mold the thermoplastic to the contours of the patient's face (nose, lips, cheeks, etc.), advising patient to keep eyes closed.
8. As thermoplastic cools, it becomes rigid and returns to its original white color. Do not remove the frame until it cools completely and rests on the patient for at least 5 minutes. Thermoplastic will shrink slightly during cooling process. Removing frame too soon may result in excess shrinkage and patient discomfort when refitting.
9. If desired, treatment portals can be cut after the frame has hardened. Use heavy shears or a cast cutter.

Large sheets and head and shoulder thermoplastic

1. Adjust water bath temperature to between 160° and 170° F.
2. Attach correct handle or frame to thermoplastic
3. Position patient with desired Bionix immobilization device(s)
4. Place the thermoplastic into heated water until thermoplastic becomes completely transparent (about 1-2 minutes).
5. Lift the thermoplastic from water and quickly shake off excess water. Feel thermoplastic to be sure that it is not too hot. You can also use a clean washcloth to wipe the excess water off.
6. Center the thermoplastic above the body part to be immobilized. **Push down evenly over to get the best mold.**
7. With your fingers, gently and quickly mold the thermoplastic to the contours of the patient. If placing over the face advise the patient to keep their eyes closed.
8. As thermoplastic cools, it becomes rigid and returns to its original white color. Do not remove Klarity® thermoplastic until it cools completely and rests on the patient for at least 5 minutes. Thermoplastic will shrink slightly during cooling process. Removing too soon may result in excess shrinkage and patient discomfort when refitting.
9. If desired, treatment portals can be cut after the thermoplastic has hardened. Use heavy shears or a cast cutter.



Thermoplastic

Klarity® Low-Melt Thermoplastic for precise immobilization.

Bionix® offers Klarity® low-melt thermoplastic material designed specifically for Radiotherapy. Thermoplastics are ideal for use with Bionix positioning devices such as the proprietary Max2™ Torso Board, the Pelvic/Belly Board and the versatile SuProne Pituitary Board. This material provides unlimited opportunities for designing customized immobilization to meet patient and treatment needs.

Easy to Use

The thermoplastics low temperature is designed specifically for radiotherapy. It is softened in warm water and quickly forms to facilitate the treatment. It provides sufficient set-up time for the therapist and simply re-heating the Klarity® thermoplastic will allow for any necessary modifications.

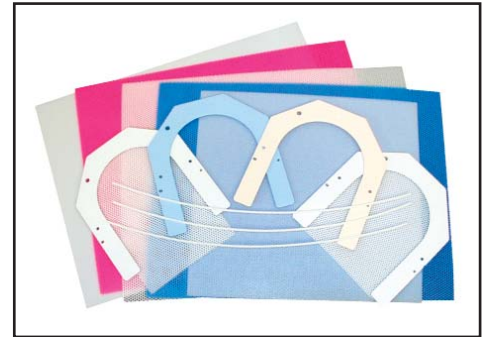
Patient Friendly

The low working temperature means that the material can be formed directly against the patient's skin with no discomfort. Perforated sheets for head and neck applications allow patients to breathe naturally. Thermoplastics also have minimum shrinkage to ensure proper fitting for the whole treatment period.

Versatile

Once formed, the thermoplastic can be marked for patient and treatment identification, ensuring accurate reproducibility. Elastic memory allows spot heating for minor adjustments due to weight loss or gain during treatment. Thermoplastics are available in both solid and perforated sheets with a variety of sizes and thicknesses.

*To order, or for more information call **Bionix Radiation Therapy** at 1.800.624.6649 or visit us on the web at www.BionixRT.com.*



Thermoplastic is available in either disposable frames or reusable frames.



Thermoplastic precisely immobilize patient's pelvic area.



Klarity® Contour™ & EZ Frames

Precision fitting masks designed for maximum patient comfort.

Klarity Contour Frames and EZ frames are the most popular U-frames used in the industry. They both have a low melt temperature, which reduces set-up time and shrinkage for maximum patient comfort. The material is smoother for patient comfort and (has an extended cooling time for longer manipulation). They both feature the smooth edge comfort design so that the patient feels no discomfort around the neck area. Low profile frame enables more beam angles and they both come with patient ID label for quick reference. These frames fit most head and neck boards in the market.

Klarity® Contour® Frames RT-450U (9" x 10" 2.5mm)

- Reinforced nose for more support
- Contoured, perforated patch pattern for easier breathing and increased comfort at the eyes and mouth.

Klarity® EZ Frame RT-430U (9" x 10" 3.2mm)

- Thicker for a more rigid mold
- Rounded edge exclusively from Bionix

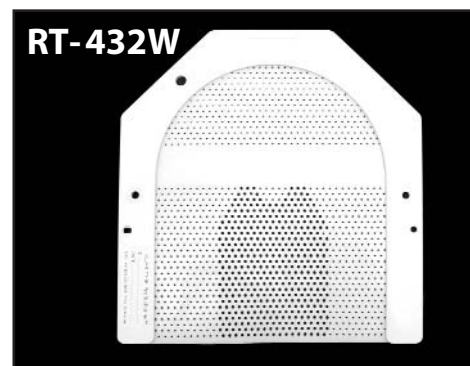
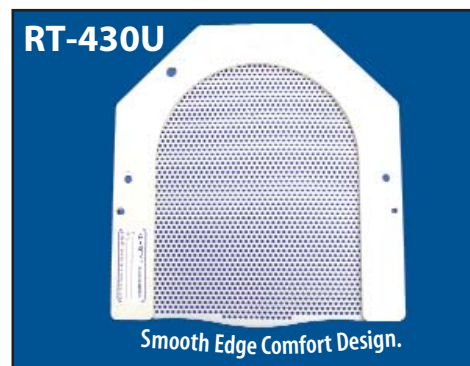
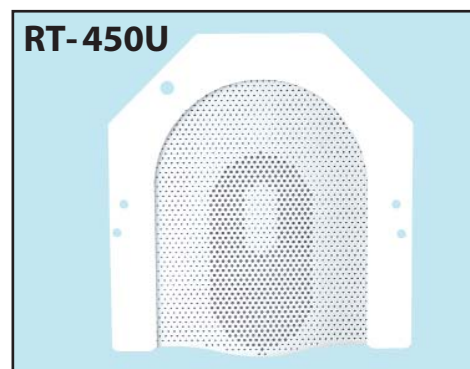
Klarity® Profile Frame RT-430W (10" x 10" 3.2mm)

- Narrow frame and more thermoplastic
- Extended version also available

Klarity® Profile Reinforced Frame RT-432W (10" x 10" 3.2mm)

- More narrow frame, more thermoplastic
- Reinforced in target areas for IMRT

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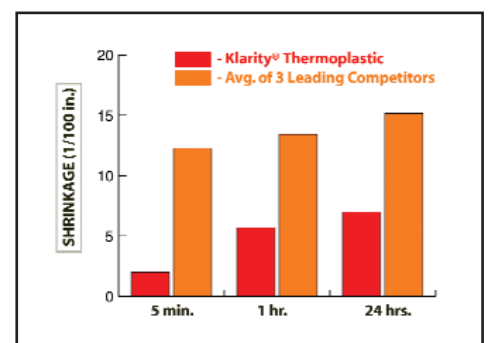
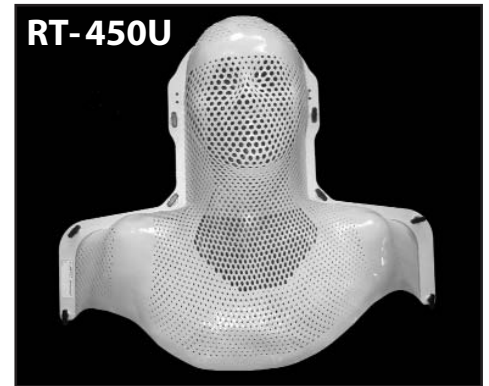
Klarity[®] IMRT SecureFrames

Precision fitting masks designed for maximum patient comfort.

This new SecureFrames are great for IMRT. We have reinforced areas around the temples and the forehead. We have also extended and made larger perforations around the eyes, mouth and nose for better patient comfort. The head and shoulder also had larger perforations in the neck area for easier breathing. This material is easy and gives ample time to mold. This frame will also fit most regular headboards.

- **Disposable**
- **New design for maximum reproducibility and patient immobilization**
- **Head only and Head & Shoulder available**
- **Fits most industry standard head boards**
- **Features easy to use expansion knob system**

To order, or for more information call Bionix Radiation Therapy at 1.800.624.6649 or visit us on the web at www.BionixRT.com.



Our Klarity[®] Contour[™] Single-Use Immobilization Mask beat the competition in a recent shrinkage comparison test.



Disposable S-type Head & Shoulder and Head only Frames

Bionix now offers a solution to high cost S-type thermoplastic frames. A **DISPOSABLE** S-type Head & Shoulder and Head only thermoplastic by Klarity is available from Bionix Radiation Therapy. The Klarity thermoplastic heats fast and gives you ample time to mold the important areas with precision. The disposable frames are easy to use and very durable.

Benefits:

- Fits a variety of head and shoulder systems
- Transmission factor is less than carbon fiber
- Easy to use expansion knob system
- No hassle putting thermoplastic in frames
- Simply dispose after treatment
- Thermoplastic has minimal shrinkage
- Will not stick to the board

RT-460S 2.4mm Head & Shoulder

RT-461S 3.2mm Head & Shoulder

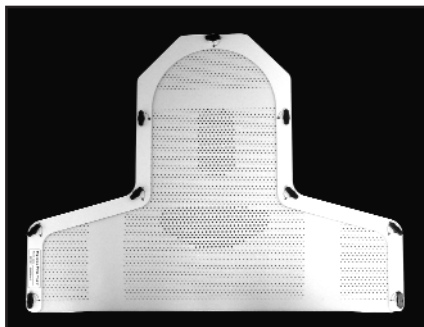
RT-460HS 2.4mm Head only

RT-461HS 3.2mm Head only

To order, or for more information call **Bionix Radiation Therapy** at 1.800.624.6649 or visit us on the web at www.BionixRT.com.

Also available Reinforced.

Great for IMRT for maximum support and rigidity in target areas.



RT-463VH



RT-463V

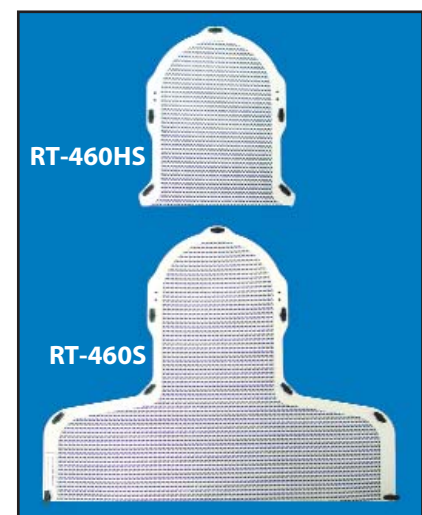


RT-460S

**NEW Easy to Use
Expansion Knob System**



RT-460HS



RT-460HS

RT-460S

Patent Pending

