

It is essential to remove all pastes or adhesives from the tissue-surface of the case before taking the impression. With the case in place in the mouth, take an alginate impression. Carry the case over in the impression. Pour the model promptly and forward it to your certified Valplast® laboratory with instructions to add the missing tooth or teeth and retention (if necessary).

The laboratory will utilize either a welding technique (for small repairs) or an injection technique (for larger repairs and retentive additions). ***Any addition can be made to a Valplast® partial.***

## Preparation for a Reline

Individual saddles can normally be relined using the injection repair technique (by a certified Valplast® laboratory). In the case where an overall reline is indicated, the case is jumped into a new base.

Take a rubber base impression under the case. The patient should close the mouth to assure full and correct occlusion as the rubber base material sets inside the partial. Once the rubber base impression has set, take an overall pick-up alginate impression and remove the case from the mouth inside the alginate impression. Make certain the case is positioned correctly in the impression, and pour the model promptly. Send the model and case to the laboratory without separating the denture from the model.

The laboratory will register the position of the teeth with a plaster or putty matrix and remove the base. A new base will be waxed up and reprocessed using the existing teeth.

*Follow the same procedure of hot water immersion when fitting a repaired or relined Valplast® appliance as you do when fitting a new case.*

## Recommendations for Patient Care

Like any removable prosthesis, the patient should be instructed to utilize good hygienic practices to maintain the appearance and cleanliness of the Valplast® restoration. The ***Val-Clean™ Concentrated Denture Cleaner*** will safely, quickly, and effectively maintain the cleanliness of Valplast® partials as well as other removable dental appliances. ***Val-Clean™*** is available from certified Valplast® laboratories, authorized Valplast® dental supply companies, and directly from Valplast International Corp. The patient should soak the appliance in ***Val-Clean™*** for 10-15 minutes a day, or overnight at least three times a week. Loose particles can be removed with the use of a sonic denture cleaner, or by placing the appliance under running water. Brushing a Valplast® appliance is not recommended as this may remove the polish and roughen the surface of the partial over time.

## Special Applications of Valplast®

Valplast® is effectively used in its unpigmented form for TMJ splints and nightguards. Its unbreakability and strength make it ideal for a splint.

Valplast® can be used in full dentures when the patient has protuberant bony structures or large tuberosities that would normally need to be reduced to allow the insertion of a rigid denture base.

Valplast® is an ideal alternative for full and partial dentures when the patient has an allergic reaction to acrylic monomers.

Valplast® can be used in combination with a metal frame to allow the aesthetic benefit of Valplast® replacing the buccal arm.

Valplast® can be used in cosmetic veneers to mask gingival recession in a variety of situations, including implants.

Valplast® is an ideal material for all removables in cases where the patient is prone to breaking his or her denture or partial, or for patients involved in

high-risk situations such as military personnel, prison workers and inmates, athletes, and police and firefighters.

Valplast® solves many difficult treatment problems involving periodontally involved teeth, sensitive teeth, cancerous mouths, or other conditions in which the teeth are compromised, or comfort is problematic. Valplast® is also ideal in mouths with high torus or cleft palate conditions.

Valplast® is an excellent option for transitional restorations for patients who have undergone surgical procedures for implants. Valplast® has also been used in overdentures with locator attachments for patients with dental implants.

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# Valplast® Techniques

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***An Informational Booklet on  
Valplast® Restorations***

## What is Valplast®?

Valplast® is a flexible denture base resin that is ideal for partial dentures and unilateral restorations. The resin is a biocompatible nylon thermoplastic with unique physical and aesthetic properties. Valplast® allows your patient's natural tissue tone to appear through the material, matching the basic shade categories (medium pink, light pink, and meharry). ***It is also guaranteed for life against breakage*** (when fabricated and handled according to the manufacturer's specified procedures).

## When should Valplast® be used?

Valplast® may be used whenever you are considering a removable partial denture for your patient. Valplast® provides a fully functional yet aesthetically superior removable partial. The translucency of the material allows the appliance to blend in with the surrounding tissue, making clasps virtually invisible.

Patients who have worn both conventional metal frame partials and Valplast® partials report that Valplast® feels more natural in the mouth, and is more comfortable because of the thinness and light weight of the appliance. You can count on Valplast® restorations to give your patients more confidence when eating, smiling, and appearing in public because of the excellent retention and aesthetics. Patients with generally healthy mouths can expect many years of use from their Valplast® partials (with many cases in use for over fifteen years without modification). Patients also have remarked on the painlessness, simplicity, and non-invasiveness of receiving a Valplast® partial.

## Valplast® Preparation Techniques

Valplast® appliances are tissue borne, and do not rely on occlusal rests or stops for retention and stability. ***No tooth or tissue preparation is needed.*** The certified Valplast® processing laboratory requires only a model ***poured promptly*** and carefully from a ***mucostatic impression*** and a counter-model.

A custom tray is normally not necessary. A custom bite and try-in should be taken for accuracy in free-end saddle cases. The laboratory can usually complete a unilateral restoration directly from the first model with the shade and correct bite.

## What the Laboratory Does

The laboratory will design the case on the master model, placing all necessary relief and blocking in wax. They will duplicate the model and wax the case for completion on the duplicate model. After investing and washing out, the teeth will be prepared for mechanical retention. The Valplast® resin is injected into a closed flask. After the case is deflasked, it is finished and fit on the master model, polished, and packed in water for delivery to your office. The accompanying guarantee slip shows that the case was completed in Valplast®

## Insertion of the Partial

After unpacking the case, and immediately prior to insertion in the patient's mouth, immerse the case in very hot tap water. Leave the case in the water for about one minute. Remove the case from the water and allow it to cool just to the point where it will be tolerated by the patient. Gently insert the case in the mouth.

The hot water treatment permits a very smooth initial insertion and a good adaptation with the natural tissues and body temperature in the mouth.

## Adjusting a Clasp

If the patient senses any discomfort because of the tightness of a clasp, the clasp may be loosened slightly by immersing that area of the partial in hot water and bending the clasp outward. If a clasp requires tightening, the clasp area may be immersed in hot water and bent inward to tighten.

## Grinding & Trimming

If any reduction is needed due to persistent irritation, the resin must be handled differently than acrylic. We recommend the use of a #13 Green Mounted Stone (as typically used for porcelain). The Green Stone will reduce the surface quickly yet leaves a very smooth surface behind. It is essential to move the instrument over the surface continuously while adjusting to avoid melting the material. If there are any threads remaining, these can be removed with a sharp blade. Any roughness on the surface can be smoothed with a brown rubber wheel.

## Polishing

After properly adjusting Valplast® with the Green Stone, the appliance will most likely not need to be repolished. If the surface does require repolishing, use Acrylux® 150 (coarse pumice substitute), Brown Tripoli, a dry B-20 brush, and the Mirror-Shine high polish compound. The partial should be dipped in cool water ever couple of seconds during the Tripoli, B-20 Brush, and Mirror-Shine stages in order to avoid overheating the material.

Adjustment and polishing kits are available through Valplast International Corp., authorized Valplast® dental supply companies, as well as many certified Valplast® processing laboratories.

## Preparation for adding a tooth to a Valplast® Partial