

Valplast® Technical Reference Guide

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 and aesthetically pleasing superior removable partial denture. The translucency of the material allows the appliance to blend in with the surrounding tissues, 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 lightweight 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 most cases being worn for five to ten years without modification. Patients have also remarked on the painlessness, simplicity and non-invasiveness of receiving a Valplast® partial.

Please use the chart below to determine which type of Valplast® restoration may be suitable to restore your patient's smile.

Valplast® Case Selection Chart

	Valplast® Partial Denture	Valplast® with Chrome-Cobalt Substructure	Valplast® with Wire Ball Clasps	Valplast® with Implant Attachments
Kennedy Class I	✓	✓		✓
Kennedy Class II		✓	✓	✓
Kennedy Class III	✓	✓		✓
Kennedy Class IV	✓	✓	✓	✓
Metal-Free Denture	✓			
Immediate Denture After Extractions	✓	✓	<i>Class II & IV Partials</i>	
Immediate Denture Over Healing Implants	✓	✓	<i>Class II & IV Partials</i>	
Tight Occlusal Space	✓			
Vertical Support Is Desired		✓		✓
Additional Stability Is Desired		✓		✓
Additional Retention Is Desired				✓



What is Valplast®?

Thank you for your interest in Valplast® Flexible Partial. Valplast® is a flexible denture base resin that is ideal for partial dentures and unilateral restorations. The resin is a biocompatible, thermoplastic nylon with unique physical and aesthetic properties. Valplast® allows your patient's natural tissue tone to appear through the material, matching the five available Valplast® tissue shades. Valplast® partials are also guaranteed against breakage and fracture for the lifetime of each appliance.

For more information, or to speak to a technical specialist, please call (516) 442 3923

Valplast® Preparation Techniques

Valplast® appliances are tissue-borne, and do not rely on occlusal rests or stops for retention and stability. If vertical support is preferred, the case should be fabricated with a chrome/cobalt substructure and occlusal rests. For an all-Valplast® restoration, no tooth or tissue preparation is needed. In order to yield the best fitting appliance, the Valplast lab requires only a model poured promptly and carefully from an alginate impression with a bite registration and counter-model. A custom tray is normally not necessary but can be fabricated if requested. A custom bite and try-in should be taken for accuracy in free-end saddle cases. In the case of unilateral restorations, the lab can usually complete the case directly from the first model with the shade and correct bite.

Laboratory Fabrication Process

The lab will design the case on the master model, placing all necessary relief and blocking in wax. They will then duplicate the model and wax the case for completion on the duplicate model. After investing and wax removal, the teeth will be prepared for mechanical retention. Valplast® resin is then injection molded into a closed flask. After the case is deflasked it is finished and fit on the master cast, polished, and packed in water for delivery to your office. Every Valplast® appliance is delivered with a manufacturer's Certificate of Authenticity to demonstrate that only genuine Valplast® was used to fabricate the appliance.

Insertion of the Valplast® Denture

After unpacking the case, and immediately prior to insertion in the patient's mouth, immerse the case in 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 at body temperature in the mouth.

Repositioning 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.

Adjusting

If any reduction is needed due to persistent irritation, the resin must be handled differently than acrylic. We recommend the use of the Valplast® Adjustment Kit. A #13 Green Mounted Stone (as typically used for porcelain), is used for minor adjustments. The Carbide bur should be used for significant adjustments and the Green Silicone Polisher for smoothing. If there are any threads remaining, these can be removed with a sharp blade. The Valplast knife is included with the adjustment kit.

Polishing

After properly adjusting Valplast®, the appliance will most likely not need to be repolished. If the surface does require repolishing, use Synthetic Pumice, Gold Tripoli and the Mirror-Shine high polish compound. All of these components are available from Valplast in a conveniently packaged polishing kit. Technical demonstration videos of this technique can also be viewed online at www.youtube.com/valplastofficial.

Adding Teeth to Valplast®

Teeth can be added to any Valplast® denture using a simple in-lab procedure. First, remove all pastes and adhesives from the tissue-surface of the denture before taking the impression. With the denture in place in the mouth, take a pick-up alginate impression. It is recommended to pour the model promptly and then forward to your laboratory. Do not remove the denture from the cast. Our technicians will make all the necessary preparations in order to perform the requested repair-work.



Preparation for a Reline/Rebase

In cases where a reline is indicated, the partial may be either jumped to a new base (in Valplast®) or a silicone softliner may be added to the tissue side of the denture.

To prepare for a reline/rebase, start by trimming back any significant undercuts on the tissue surface of the denture. Retentive arms (clasps) may also be removed to facilitate easy removal of the denture (Note: clasps may be removed only for rebasing procedures but should not be removed for soft relines.) Next, apply adhesive to the tissue side of the denture and take a wash impression with light bodied rubber base, polyether or polyvinyl siloxane material. The patient should close their mouth to assure full and correct occlusion as the material sets inside the denture. Once the material has set, take an overall pick-up alginate impression and remove with the denture from the patient's mouth. Make certain the case is positioned correctly inside the impression and pour the model promptly before forwarding to your laboratory.

Recommendations for Patient Care

Like with any removable prosthesis, the patient should be instructed to utilize good hygienic practices to maintain the appearance and cleanliness of the Valplast® restoration. 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® may be purchased from Valplast Supply Services by calling us at (516) 442-3873. With Val-Clean®, the patient should be instructed to soak the appliance for 10-15 minutes a day, or overnight several times per week. Loose particles can be removed with the use of a Sonic Denture Cleaner or by rinsing the appliance under running water. The Valplast DentureBrush may be used occasionally to remove any build-up of deposits. For more information on Val-Clean, please call (516) 442-3873 or visit www.valclean.com.

Information provided by
Valplast International Corp
200 Shames Drive,
Westbury, NY 11590
USA
+1 (516) 442-3923
www.valplast.com