



VALPLAST® PROSTHESIS BASE PLATE

Professor Dr. Tibor Fabian

Expert Opinion

EXPERT OPINION OF THE CLINIC REGARDING

Valplast® Prosthesis Base Plate

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Valplast® was developed in 1950 by Arpad F. Nagy and Tibor F. Nagy as a material for denture base plates. The material is injected with a special injection press. The material is characterized by its flexibility.

The clinic was asked by Valplast International Corporation in 1995 to conduct a study regarding this material's usability. During the study we fabricated 26 partial dentures (17 lower, 9 upper), and examined the results clinically after the prostheses were worn for a suitable time. We fabricated all-Valplast®, Valplast® with metal combination, and metal with acrylic combination for each of the patients. We examined gingiva at the margins, gingiva and bone status, and the physical properties of the material, and we took into consideration the patient's subjective opinions.

The above numbers were sufficient to create a clinical expert opinion. Based on the results, we are stating the following.

1. Valplast® is suitable for fabricating the base plate of removable prostheses. It can be combined with metal and it can be used without metal as well.
2. The aesthetics of Valplast® partials are unparalleled.
3. Valplast® fills a gap in our trade because no other base plate materials have the needed flexibility and maintain the flexibility indefinitely.
4. Valplast® will keep its original physical properties only if the technology of fabricating the prostheses is executed properly. Only the manufacturer's provided tools (including press, knife, cleaner, etc.) enable the guarantee and insure that the product will maintain color, flexibility, and smoothness.
5. Valplast® is recommended for use when the overall indications for partial denture therapy are taken into account along with the particular therapeutic and prosthetic needs of the patient. If these basic

conditions are kept to, the flexibility of the base plate will not cause any deterioration.

6. The material may be used for a temporary prosthesis, especially when a metal and acrylic prosthesis would take too long to fabricate.
7. The patients reported that the Valplast® prosthesis is very soothing, easier to handle, and very easy to become accustomed to.
8. The material is a good alternative to metal/acrylic prostheses because Valplast® is biocompatible, does not contain any hazardous acrylic monomers, and is non-allergenic. We are not aware of any allergenic reaction to this material, and did not experience any allergic reaction in our patients.
9. This material can be used without a metal frame, making it perfect for metal-allergic patients.
10. Valplast® is much more suitable than any other material for fabrication of the so-called “wrap-around” clasp which is a dento-alveolar clasp developed by Dr. Imre Kemeny.

Our study shows that if all the conditions of usage are met, Valplast® fills a gap in the dental trade, and can be recommended for use.