**How To Deliver Better Partial Dentures:**

**Dentistry is changing day by day. The latest innovative denture materials and techniques allow dentists to prescribe partial dentures that are more aesthetic, function better, and enhance the patient experience. If you are looking to deliver the very best partial dentures utilising these new materials, SmartLab has the solution.**

**Duraflex:**

**Duraflex is a new generation flexible denture material, similar to Valpast. It is ideal for smaller cases. Unlike Valplast which is a nylon, Duraflex is made from polyolefin, which makes it very easy to adjust and polish. Duraflex is also very stain resistant. Your patients will appreciate the superior comfort of Duraflex, along with a natural translucency that allows the partial to virtually disappear in the mouth.**

**Thermosens:**

**Thermosens is a new semi-rigid thermoplastic that is ideal for larger partial denture cases. Its superior strength allows partials to be made a lot thinner and lighter than conventional acrylic dentures. Its flexibility allows undercuts to be engaged for retention, eliminating the need for unaesthetic metal clasps. Thermosens is practically unbreakable and its lack of processing shrinkage results in a perfect fit. Because Thermosens is not an acrylic, it is ideal for patients requiring an allergy free appliance.**

**Conventional Acrylic:**

**For cases where you wish to supply a conventional acrylic denture, SmartLab offers a premium solution. All our partials are made from high impact, heat cured acrylic. Models are surveyed, blocked out, and dentures processed on a duplicate model. They are then carefully fitted to your original model, with the occlusion refined, before being sent back to your surgery. The result is a partial denture that fits first time, every time.**

**FAQ:**

**Q: What type of impression material works best for partial dentures?**

**A: Always use alginate to avoid tissue compression. This will result in better fitting dentures with less adjustments.**

**Q: Why is it recommended to use Duraflex for smaller cases and Thermosens for larger cases?**

**A: It is to do with material shrinkage in the processing of the dentures. Materials such as Duraflex have more material shrinkage than Thermosens. For smaller unilateral cases this is irrelevant and Duraflex fits perfectly. With larger cases, such as those that go across the palate, Thermosens is recommended as there is virtually no material shrinkage during processing. The result is a denture that fits passively, greatly reducing the need for adjustment.**

**Q: How do I fit Duraflex and Thermosens dentures?**

**A: Fitting is easy. Careful preparation of the case in the laboratory ensures a virtual adjustment free fit. All that is required is to place the appliance in hot tap water for 1 minute prior to insertion. This will allow the material to pass over the retentive undercuts and seat fully.**

**Q: How do I adjust Duraflex and Thermosens dentures?**

**A: If you have struggled with adjusting flexible dentures in the past, you will find adjusting Duraflex and Thermosens a breeze. Both these materials act more like an acrylic than a vinyl. Start by using a carbide to adjust the denture. Use light pressure and don’t hold the bur in one spot too long. Next use a rubber wheel on slow speed to remove the scratches from the bur. Following that, pumice as usual using light pressure.**

**Who We Are:**

**I started SmartLab in 2016 looking to build a business around the changing technologies in dentistry. Prior to that I owned Codentech, an Auckland based laboratory that grew from a one person lab to a 10 person lab before selling the business in 2013.**

**SmartLab provides a complete removable service including full and partial dentures, laminated mouth guards, and bite splints. We understand the needs of dentists and look to provide work that arrives back at your surgery ahead of time, fits without time consuming and frustrating adjustments, and looks good in the mouth.**

**If you would like any further information, or would like to discuss a specific case, please contact me, Kevin Rosemergy, on 09 434 4148 or 021 101 4898.**

**Regards**

**Kevin Rosemergy**