DURASOFT® pd – Hints for Use

Properties:
DURASOFT® pd is a top quality compound material fabricated by co-extrusion which consists of a hard PETG base material and a soft thermoplastic (TPU) material. A homogeneous surface of the two materials is guaranteed if used correctly. The material is abrasion resistant to the greatest possible extent and almost unbreakable. It is available in the thicknesses 1.2 mm (0.7 mm PETG / 0.5 mm TPU), 1.8 mm (0.9 mm PETG / 0.9 mm TPU), 2.5 mm (1.6 mm PETG / 0.9 mm TPU), 3.0 mm (2.1 mm PETG / 0.9 mm TPU), 4.0 (3.1 mm PETG / 0.9 mm TPU). DURASOFT® pd 1.8 mm and 2.5 mm is now also available in a blue coloured version. Like all SCHEU-DENTAL pressure moulding blanks, the components of DURASOFT® pd have been tested to the international guidelines ISO 10993 and EN ISO 7405 with the result that it has been released for clinical use.

Application:
Inserting and wearing the splint is more comfortable for the patient due to the soft flexible layer, therefore DURASOFT® is well suited for all splint therapies as well as partially for mouth protection and intraoral snoring devices. Regarding orthodontic appliances (application) also slight single-tooth movements are possible due to the soft TPU, thus enabling the fabrication of set up splints.

As a lot of high quality thermoplastics, especially copolyester material, DURASOFT® pd is hygroscopic reactive, i.e. absorbs humidity, so that when heating the material bubbles can’t be excluded in case the material has not been pre-dried before. Therefore, DURASOFT® pd is available in all thicknesses pre-died as DURASOFT® pd, individually vacuum sealed for instant use.

Pressurizing:
The model should be insulated with an ISOFOLAN®-foil (REF 3207) in order to receive perfect transparency and smooth inner surfaces. Cut the ISOFOLAN®-foil to the desired shape of the splint and perforate interdentally/occlusally with a probe/scalpel to avoid air bubbles. Now the insulated model is being embedded into pellets and coated with DURASOFT®. In order to avoid discoloration of the soft inner layer we recommend using DURASOFT® seal. For code and heating time of DURASOFT® please refer to the imprint on each plate or the label.

Adjusting:
If an adjusted bite splint is required, cold cure resin, e.g. DURASPLINT®, can be added to the hard layer (PETG). To avoid thermal stress / tensions the moulded splint is not yet finally finished; first the occlusal surface has to be prepared twice with the DURASPLINT® Monomer and the resin has to be applied on the moist monomer. Polymerisation is done according to the instructions of the supplier, only after this process the splint is finally finished and removed.

Finishing:
For final finishing and trimming, we recommend the finishing set (REF 3378). The set provides for example the HM carbide cutter (REF 3369) and the cutting bur (REF 3214) for coarse cutting of splints. For fine interdental finishing of splints, we recommend the HM-tricutter (REF 3370). Final trimming and polishing can be most effectively done with the POLYFIX brown (REF 3371) or the OSAMU-polisher (REF 3247).

Material Care:
Please advise your patients to clean the splint carefully. We recommend daily cleaning with our CETRON® products. Alternatively, splints can be cleaned with tooth brush, toothpaste and clear water/mouthwash. In order to avoid modifications and staining, please don’t use cleansing agents containing colorings. Please don’t use neither steam blasting and ultrasonic devices, nor prosthetics cleansing agents or any cleaning method with a temperature higher than 45°C.

Due to contact with individual mouth environment, lack of hygiene, strong aromatic food and drinks such as nicotine, coffee, tea, coke and pharmaceuticals, splints may change their color, taste and smell. Moreover, make sure not to use organic solvents like ethanol, acetone etc. for cleaning. Some products on herbal basis used for temporary treatment of allergic and inflammable conditions of the oral mucosa, especially vesicles as well as for symptomatic treatment of gingivitis may lead to strong stainings, maceration and destruction of the resin and should be strictly avoided (f.e. PYRALVEX®).

Stainings may occur, too, in case of interactions of filling materials and prosthetics (f.e. amalgam, molybdenum of chromium cobalt and alloys with a reduced content of precious metals.) Please contact your dentist immediately in case of any modification of your splint.

We recommend:

ISOFOLAN®
DURASPLINT®
Finishing-Set
DIMO®
CETRON®