

DURAN®/DURAN®+

processing information

Description: DURAN®/DURAN®+ is a clear transparent, tough and abrasion-resistant PETG thermoforming material with exceptional properties in terms of tensile strength, elasticity and dimensional stability. The material has been tested and approved for its biological safety.

Preparation of the model: If there are any prominent undercuts, they should be blocked out below the equatorial line of the tooth along with the papillae, either digitally or prior to the thermoforming process, using BLUE-BLOKKER® or SILKITT so that the splint then displays good friction but does not bulge excessively during insertion. If there is no undercut in the molar region, attachments can be used, as an optional measure, to improve retention of the splint.

Insulation of the model: A protective foil such as ISOFOLAN® (REF 3207) or DURAN®+ must be used to insulate 3D printed model so that the DURAN® splints can be removed easily. When using dental stone models with DURAN®+, the models should be wetted with water or insulated in advance to allow easy removal. DURAN® with no integrated protective foil should be used in combination with ISOFOLAN®.

Thermoforming: Full models should always be thermoformed in pellets and dental arches on the model platform. DURAN®/DURAN®+ can be heated quickly, as stated on the packaging label and the foil imprint. Depending on the model size, the original thickness of the foils reduces during thermoforming.

Finishing: In thicknesses of up to 1.0 mm, DURAN®/DURAN®+ can be shaped easily with SD foil scissors A (REF 3460). For thicknesses above 1.0 mm, the finishing set (REF 3378) is ideal. Final processing and polishing are done with the DIMO®/DIMO® PRO trimming wheels (REF 3380-3384/3376). Self-curing resins (e.g. DURASPLINT®) can be used for bonding and building up the model. It is not necessary to abrade the splint. Most C&B and temporary restoration materials – particularly bis-acrylate – need to be used with a primer.

Cleaning/care: Daily cleaning with CETRON® powder from our CETRON® range is recommended. The splint can also be cleaned using a denture brush and water. To avoid any changes, discoloration or damage to the splint, do not use cleaning products that contain oxidizing agents (active oxygen, chlorine, etc.). Organic solvents such as ethanol, acetone, etc., are also unsuitable for cleaning. Avoid cleaning the teeth or splint with toothpaste or mouthwash containing anionic surfactants such as sodium lauryl sulphate.

Important: The material is sensitive to temperature and must not come into contact with boiling water or hot beverages such as coffee or tea. You can find the complete range of material at: www.scheu-dental.com/pressure-moulding-material

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