

Instructions for use

XPLEX BASE

ENGLISH

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Product Description

XPLEX Base are impact-resistant PMMA discs for the CAD/CAM technique to fabricate denture bases for removable denture prosthetics using an subtractive manufacturing process.

Composition:

Polymethyl methacrylate, co-polymer for impact toughness modification, pigments

Typical material properties

Chem. description	PMMA-based denture base resin
Flexural strength	$\geq 65 \text{ MPa}$
Flexural modulus	$\geq 2000 \text{ MPa}$
Fracture toughness K_{max}	$\geq 1.9 \text{ MPa}\cdot\text{m}^{1/2}$
Overall work of fracture W_f	$\geq 900 \text{ J/m}^2$
Remaining quantity MMA	$\leq 4,5 \%$
Water absorption	$\leq 32 \mu\text{g/mm}^3$
Water solubility	$\leq 1.6 \mu\text{g/mm}^3$

Indication

Denture bases in removable denture prosthetics.

Contraindication

The use of XPLEX Base is contraindicated if the patient is known to be allergic to any of its ingredients.

Side effects

Systemic side effects are not known to date. In individual cases local allergic reactions to methyl methacrylate materials have been reported.

Processing with CAD/CAM

During construction, a minimum wall thickness (denture base) of 2 mm must be observed. Failure to observe the minimum thickness may result in failures (e.g. fracture of the restoration).

XPLEX Base discs can be processed in CAD/CAM milling systems with a standard holder of 98.5 mm. Only use milling tools recommended for this milling system when processing the material. Please note that the material can be subject to overheating if milling tools, polishing brushes or steam cleaners are handled incorrectly. This may result in the material being damaged.

Processing after the milling procedure

Finishing

After milling, separate the restoration from the disc with a suitable tungsten carbide bur. Use a cross-cut tungsten carbide bur for finishing or shape adjustments. Pay special attention to the margins of the tooth cavities and the interdental spaces. The required minimum thickness must be observed.

Polishing

Polishing is performed as usual using polishing instruments suitable for denture base materials.

Repair/extension/relining

Dentures fabricated with XPLEX Base can be repaired, adjusted or relined using conventional auto-polymerizing denture base resin (e.g. XPLEX Cold).

The practical application corresponds with that of conventionally fabricated dentures. More details can be found in the respective Instructions for Use.

Cleaning and disinfection

Clean XPLEX Base under running water using a brush. Use a suitable commercial disinfecting agent for disinfection.

Important processing restrictions

The following points have to be observed for the successful working with XPLEX Base:

- Observe the required minimum thickness (2 mm)
- Milling the discs using only a compatible CAD/CAM system
- Staining/layering using materials that are approved and/or recommended

General instructions

- Failure to observe the stipulated limitations of use and processing instructions may lead to failure.
- Contact of solvents or monomer with polymerized denture base material may lead to white discolouration.

- Do not inhale grinding dust during finishing. Use extraction equipment and wear a mask.
- Protect the materials from direct sunlight.
- Note the storage instructions and expiry date on the packaging.
- Keep out of the reach of children.

Safety notes

In the event of serious incidents that have occurred in connection with the product, please contact the manufacturer CANDULOR AG, Boulevard Lilienthal 8, 8152 Glattpark (Opfikon), Switzerland, www.candulor.com and your local health authority.

Safety data sheets can be found on our website at www.candulor.com.

The current instructions for use can be found on the CANDULOR AG website eifu.candulor.com.

Please ensure that you always have the latest version available, which you can find in the download section of the Candulor website.

If you wish to receive the instructions for use in paper form, please contact the manufacturer CANDULOR AG. To do this, please use the telephone number or the e-mail address on the last page of these instructions for use. The instructions for use will be sent to you free of charge by post within seven days.

Rx ONLY

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