

Plastic

PMMA Blocks for Dental use

Delivery forms

Blank diameter: 98 mm step

Heights: 16, 20 mm

Instructions for use

Please read the contents of this instruction manual carefully. For general and technical questions we are at your disposal under the telephone number: +49 821 455252-0.

Description

CADtools PMMA Blocks for Dental use are polymethyl methacrylate blanks for the manufacture of medical devices using subtractive manufacturing processes. These are suitable for the production of bite splints, crowns and bridges manufactured using milling technology. The finished restoration should remain in the mouth for a maximum of 36 months, depending on the case.

Design

The design must be created in accordance with dental technology standards in order to meet the necessary mechanical requirements.

Milling

The processing can be done with all milling machines suitable for PMMA. Insert the blank into your CAD/CAM system according to the manufacturer's instructions and make the device-specific material settings. The milling cutters to be used for the material should be agreed with the milling machine manufacturer beforehand.

Separation

The milled workpieces can be cut out and further processed with all commercially available milling cutters suitable for plastics processing. Pay attention to the maximum speed recommended by the manufacturer for rotating tools during this process.

Storage

Store in a dry room between 10 ° C and 30 ° C, avoid direct sunlight and excessive humidity.

Disposal

The applicable national regulations and the relevant information in the safety data sheets must be observed.

Safety instructions

When machining the PMMA blank and the workpiece, dust can be generated, which can irritate the eyes and respiratory tract. A suitable aspiration system or aeration and ventilation of the workplace must be provided. The use of protective gloves, protective clothing and goggles as well as respiratory protection is expressly recommended.

Should the patient or the dental technician show signs of hypersensitivity, stop using the material immediately and consult a doctor.

The product can cause allergic reactions.

Technical data sheet for CADtools PMMA Blocks for Dental use

| Chemical composition | Concentration |
|----------------------|---------------|
| PMMA | 99 % |
| Pigment | 1 % |

| Material data | |
|-------------------|--|
| Colour | A1,A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, crystal clear |
| Density | 1,17 g / cm ³ |
| Flexural strength | >120 MPa |
| Vickers hardness | 25 HV |
| Water absorption | < 25 µg / mm ³ |
| Solution value | < 5 µg / mm ³ |