

### 1. Material-related characteristics

#### Composition [wt.%]

Polycarbonate (PC)	100
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#### Physical specifications

Flexural strength	[MPa]	≥ 98
Flexural modulus	[MPa]	> 2300
Water absorption	[µg/mm <sup>3</sup> ]	3.6
Solubility	[µg/mm <sup>3</sup> ]	0.2
Residual monomer content	[%]	≤ 0.0015

### 2. Explanation of symbols



Manufacturer



Date of manufacture



Consult instructions for use



Use by



Batch code



Catalogue No.



Store dry

### 3. Instruction Manual

#### 3.1. Indications

Zfx™ Polycarbonate splint are transparent dental milling blanks out of polycarbonate for the manufacture of splints, therapeutic splints, bite regulators and drilling templates for short-term application in the oral cavity up to 30 days.

#### 3.2. Contraindications

- × intolerance to the contained components
- × bridges with two molar pontics
- × too little connector cross section
- × model casting with clasps, bars, narrow sublingual bars and transversal connectors

#### 3.3. Safety information

Please pay attention to the information in the instruction manual in its current version. Avoid the inhalation of dust particles during process-

ing. Wear protection gloves, safety glasses and a dust mask to prevent irritations of eyes, skin and respiratory system.

#### 3.4. Handling and storage

Only use clean, defect-free material out of undamaged packaging and make sure that the blanks are always stored in their original container in a dry and cool place, protected from light. Avoid contact with fluids.

#### 3.5. Processing

Handling this medical device should only be allowed to trained staff. In general all constructions should be designed in a way to enable the compensation and the transfer of the mastication forces to the abutment teeth.

#### 3.6. Milling and further processing



Only use one-edged milling tools in the milling machine or wet grinding procedures!

Further processing:

Tungsten carbide burs like the one you use for soft reline materials are suitable for rough adaption. For the finalization common cross-toothed millers can be used. Polishing should be carried out with regard to a low contact pressure, otherwise the resulting heat might lead to smearing or melting.

#### 3.7. Cleaning

- × ultrasonic bath (max. 40 °C) with mild cleaning agent
- × process of sterilisation in an autoclave up to 121 °C

**Do not use** the following methods for cleaning:

- × steam blasting
- × organic solvents and acids (e.g. acetone, hydrochloric acid)
- × highly concentrated alcohols
- × chemical denture cleaners
- × abrasive cleaning agents

#### 3.8. Mounting

Bonding extra-orally:

Only use special adhesives, adapted to the material you want to combine with the polycarbonate. Pay attention to the instructions of the adhesive-manufacturer.

Cementation:

For temporary cementations temporary cements and for permanent cementations self-adhesive glass ionomer cements are recommended.

#### 3.9. Disposal

Remains of the polycarbonate blank can be disposed of in the regular household garbage.

# Instruction Manual

## Zfx™ Polycarbonate splint

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Page 2 von 2



### 3.10. Information on Manufacturer

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We reserve the right to make changes because of the continuous development of our products. Please find the current version of the instruction manual on our website:

[www.zfx-dental.com](http://www.zfx-dental.com)