

Technical data sheet

Polycarbonate CADstar occlusal splint



Manufacturer

CADstar GmbH
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CADstar GmbH
is certified according to
■ DIN EN ISO 13485
■ RL 93/42/ECC (CE 0297)

■ Description

Polycarbonate (PC) for the production of bite splint

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Polycarbonate (PC) occlusal splints are made of a bio-compatible high-strength synthetics, which is approved for medical applications up to 30 days tissue contact. It is possible to wear dental applications that come in contact with blood and tissue up to 180 days (however, this requires that there is no contact more than 8 hours a day).

A bite splint (also referred to as a grinder or Bruxism-Michigan splint) is a prosthesis-like synthetic support adapted to the dental arch for the treatment of myoarthropathies (diseases of the masticatory system). By fitting the patient with a bite splint, the aim of the therapy is to eliminate overload and misalignment of the teeth and the temporomandibular joints.

The bite splint is applied if loss of material due to mechanical abrasion (erosion) on the teeth has occurred. The splint is intended to protect the teeth from further loss of enamel. The splint can be made either for the upper jaw or the lower jaw; however, most of the splints are used in the lower jaw.

■ Chemical composition

Polycarbonate (PC) consists of:

- official information not provided by the manufacturer

■ Physical/mechanical properties (guidelines)

Density ρ (at 20°C)	1.20 [g/cm ³]
Elasticity modulus (at 20°C)	2,400 [MPa] or [N/mm ²]
Vicat softening temperature (melting point)	145 [°C] or 293 [°F]
Water absorption	0.3 [%]