

# Instruction for use & technical data CupraPeek



## technical data

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### producer

Whitepeaks Dental Solutions GmbH & Co. KG  
Langeheide 9 - 45239 Essen - Germany

### product / product type:

CupraPeek

### product shape:

discs and blocks in different diameters

### type of material:

Polyetheretherketone (PEEK)

### CE-mark:

CE 0483

### composition (Mass-%):

Polyetheretherketone 100%

### technical data:

tensile properties according to Weibull ~ 186,6 MPa  
solubility ~ -0,1 µg/mm<sup>3</sup>  
water absorption ~ 4,66 µg/mm<sup>3</sup>

### general information:

CupraPeek is a medical device of the class IIa – marked with CE 0483.

### indication:

CupraPeek is suitable for the production of permanent, removable, respectively partly removable (screw-retained) dental prosthesis. This means, that with the described material crowns, bridges, model casting prostheses, abutments, secondary structures for combined dental prostheses, implant-supported full crowns in the posterior region and partly removable, screw-retained bridges can be realised.

### handling:

CupraPeek has to be processed with carbide burs. The milled prosthesis has to be cut out of the milling blank with a coarse toothed carbide bur. The retaining bars have to be cut without applying pressure. The restorations can be polished with suitable silicone polishers, goat hair brushes and suitable polishing paste (diamond coated).

### cementation:

After trying-in a composite primer (Ambarino P60 Creamed, Visio.link Bredent, Z-Prime Plus Bisco) is applied to the inner surface of the crown, which has been sandblasted with 220 µm. The primer establishes a safe compound between CupraPeek and the adhesive composite.

### veneering:

Suitable veneering materials are for example the veneering composites Base Dentine and the modelling liquid of the company VITA.

### disposal:

CupraPeek discs and blocks consist of pure polyetheretherketone. Remains can be disposed with household waste. CupraPeek is insoluble in water, inactive and is not hazardous to ground-water.

### regulations:

minimum wall thickness: 0,6 mm

connector cross-sections in the anterior region of the mouth: 10 mm<sup>2</sup>

connector cross-sections in the posterior region of the mouth: 16 mm<sup>2</sup>

In the posterior region no more than 2 pontics can be positioned.

### storage:

Store cool and dry.