

Instruction for use & technical data CopraDur



technical data	issued: 03.09.2015
producer:	Whitepeaks Dental Solutions GmbH & Co. KG Langeheide 9 - 45239 Essen - Germany
product / product type:	CopraDur
product shape:	discs and blocks in different diameters
type of material:	synthetic material (PA)
CE-mark:	CE 0483

composition (Masse-%) clear material
synthetic material (PA) 100%

composition (Masse-%) colored material:
synthetic material (PA) 99,9% - 100%
pigments and additive < 0,10%

technical data
tensile properties
according to weibull
water absorption
solubility

72,8 MPa
33,3 $\mu\text{g}/\text{mm}^3$
-3,5 $\mu\text{g}/\text{mm}^3$

General information:

CopraDur discs and milling blocks of company Whitepeaks Dental Solutions exist of microcrystalline synthetic material (PA). A processing of this material is with all milling systems possible.

storage:

protect against heat and direct sunlight!

indication:

CopraDur discs and blocks are certified for use in the mouth of the patient.

They can be used as temporary construction as well as a permanent solution or for orthodontic splints.

handling:

To the handling of CopraDur, uncoated, single flute PMMA milling burs should be used. The milling strategy of CAD/CAM equipment should be modifying, because the material has different impact strength than PMMA for example.

Polishing paste should be used only with soft polishing brush. Please make sure that the material is not overheated during polishing. Work only with low speed motor.

recommendation

for an optimum milling result for our material we recommend the following milling strategy / parameters.

2mm PMMA milling bur - single cutting edge: feed rate: 25mm/s at 16.000 rpm

1mm PMMA milling bur - single cutting edge: feed rate: 19mm/s at 22.000 rpm

2mm PMMA milling bur - double cutting edge: feed rate: 25mm/s at 8.000 rpm

1mm PMMA milling bur - double cutting edge: feed rate: 19mm/s at 11.000 rpm

Therefore we recommend single cutting edge burs and maximum cooling airflow for dry milling or water cooling while milling.

disposal:

CopraDur discs and blocks exist of pure Pa 6. Remains can be disposed with household waste.

CopraDur is insoluble in water, inactive and is not hazardous to ground-water.

regulation:

Occlusal und cervical should not be less than a thickness of 0.3 mm.

Bridge members should be 9 mm². There is no limit regarding the number of bridge members.