

Product Information

reBlanX[®]

Refill-Material for CAD/CAM Discs, Autopolymer



reBlanX[®]

CAD/CAM resin, Autopolymer. Acrylic resin for refilling CAD/CAM milling blanks in the dental laboratory.

Indications:

- CAD/CAM production of bite splints
- CAD/CAM production of denture bases

Product features:

- universal use, suitable for refilling any standard PMMA disc.
- easy processing, optimum chipping behavior during milling
- mucous membrane compatibility due to low amount of residual monomer
- minimal shrinkage, no tension inside the cured material due to controlled polymerization
- homogenous surface, very high plaque resistance
- easy burring and polishing
- absolutely color stable and cadmium free
- evaluated and certified biocompatibility

Mixing ratio:

10g of powder with 5-6g of liquid

Processing times:

Swelling phase: approx. 30 sec
 Pouring phase: approx. 2-3 min
 Plastic-modelling phase: approx. 5-7 min

Polymerization:

The polymerization is carried out under a pressure of 2-3 bar and a water temperature of 55°C for about 30 min.

Shades:

The Polymer is available in colorless/clear. Colored monomers are available in: pink, red, petrol, magenta, light-blue, neon-red, neon-orange.

Delivery forms:

Powder: 100g, 1.000g, 5.000g, 10kg
 Liquid: 80ml, 500ml, 5.000ml

Note: Due to the lack of normative requirements, the classification is based on the product standard for denture base resins, ISO 20795-1, type 2 class 1 and according to MDD 93/42/EEC annex IX, class IIa for removable and for fixed dental appliances.



Technical Data:

Mechanical properties acc. to ISO 20795-1	Requirements	reBlanX [®]
Ultimate flexural strength in MPa	min. 60	73
Flexural modulus in MPa	min. 1500	2400
Maximum stress intensity factor in MPa	not required	> 1,5
Total fracture work in J/m ²	not required	> 290

additional properties acc. to ISO 20795-1	Requirements	reBlanX [®]
Water absorption in µg/mm ³	max. 32	21
Solubility in µg/mm ³	max. 8,0	2,4
Residual monomer in % (Refill test specimen after 24h storage)	max. 4,5	≤ 1

Other requirements	reBlanX [®]
DIN EN ISO 20795-1 Requirements concerning the packing plasticity	not required
DIN EN ISO 20795-1 Requirements concerning the surface characteristics and the shape capability	fulfilled
DIN EN ISO 20795-1 Requirements concerning the color and the color stability	fulfilled
DIN EN ISO 20795-1 Requirements concerning the translucency and the freedom from porosity	fulfilled
DIN EN ISO 20795-1 Requirements concerning the bonding to synthetic polymer teeth	fulfilled
DIN EN ISO 10993 Requirements concerning the biocompatibility	fulfilled