

Resin priZma^{3D}
BIO SPLINT



PRIZMA 3D BIO SPLINT RESIN

PriZma 3D Bio Splint is a biocompatible resin suitable for 3D printing of myorelaxation plates and all kinds of splints with high durability, hardness, mechanical strength and transparency.

DIFFERENTIALS:

PRIZMA 3D BIO SPLINT

- ◆ Increased transparency;
- ◆ Ease of printing with optimal viscosity and high resolution;
- ◆ Compatibility with DLP, LCD and Laser printers;
- ◆ Easy processing after printing, with smooth finishing and polishing;
- ◆ Compatible glaze system (PriZma Seal);
- ◆ High flexural strength - 102.83 Mpa;
- ◆ Low sorption and solubility, ensuring optimum durability;
- ◆ Biocompatibility and safety for patients.



PHOTO DANILO BIANCHI

MECHANICAL FEATURES

TENSILE MODULUS (GPA)	2,36
TENSILE STRENGTH (MPA)	55,27
DEFORMATION AT BREAK (%)	4,26
MAXIMUM TENSILE LOAD (N)	1031,89
FLEXURAL MODULUS (GPA)	2,97
DRYING MODULUS 1% (GPA)	2,95
FLEXURAL STRENGTH 5% (MPA)	102,83
MAXIMUM FLEXURAL LOAD (N)	167,94

INSTRUCTIONS FOR USE:

- 1** - Pour the quantity indicated by the printer manufacturer into the printer tank and start printing;
- 2** - Wear gloves and eye protection when handling the product.
- 3** - After printing, wash the objects in isopropyl alcohol for 3 to 5 minutes in motion or ultrasound to remove resin from the surface and dry them completely in a fan, dryer, or room.
- 4** - Place in UV light chamber for post-curing: 8-20 minutes (until the lilac tone is no longer seen) and proceed with mechanical polishing and/or glaze. We indicate the use of Glaze PriZma SEAL.
- 5** - Do not leave the resin in the tank after printing.
- 6** - Ideal working temperature in the printer from 25 to 38 degrees Celsius.

FINISHING AND POLISHING:

Finishing and polishing can be carried out mechanically in the same way as with conventional acrylic resins, such as total prosthetics. You can also use the glazes compatible with 3D resins, such as **PriZma SEAL**. If you have doubts on how to proceed with the polishing click on the link below for POLISHING GUIDE.



GUIDE FOR MECHANICAL POLISHING FOR TOTAL PROSTHESIS AND MYORELAXATION PLATES IN 3D PRINTING

1st Step: Use sandpaper in mandrel number 220.

2st Step: Use sandpaper in mandrel number 400.

3st Step: Pumice stone in the vise with 29 hair brush.

4st Step: 3x35 cloth wheel (imported) with universal paste - Ivoclar

GO TO THE COMPLETE GUIDE:



REIMBURSEMENT:

3D resins cannot be relined with conventional PMMA, as they are not compatible and there is no chemical bond between them. Mismatched plates are the result of an unsuccessful calibration or design, an incorrect insertion axis and must be remade.

TRANSPARENCY

Transparent resins are very sensitive to curing. The post cure time is between 8 and 20 minutes, depending on the power of your curing chamber. The optimum time will be the time that makes the plate transparent, so do a test run before printing your plates. Over curing will make the plates yellowish.



PRIZMA 3D BIO SPLINT RESIN

EXPIRATION DATE

2 years from date of manufacture or
3 months after opening

DISPOSAL MODE

Do not reuse the product and
dispose of it accordingly

ANVISA: 80483740001

Other information such as
precautions, adverse effects, first aid,
transport conditions, and more can
be found in the IFUs on our website
and on the ANVISA website.

Questions and support by
WhatsApp or phone:
(15) 99116-0827

Or visit our website
www.makertechlabs.com.br



prizma^{3D}
LIGHT-CURING RESIN FOR
3D PRINTING



BIO SPLINT

Indicated for making
myorelaxation plates
and splints



PRINTERS
DLP/LCD/SLA



COLORLESS