



3D PRINTING RESINS

PRINT THAT YOU CAN'T SEE

CERTIFIED BY



EMERGO EUROPE
Prinsessegracht 20
2514 AP The Hague
The Netherlands

TGA Health Safety
Regulation
Australia & NZ

ANVISA
Brazil & South America

ABOUT US

Taglus was founded in the year 2018. Taglus Resins are a range of quality liquid resins offering best results for 3D printing. The aim was to introduce superlative quality resins perfect for 3D printing. In-office dental 3D printing helps improve the efficiency of forward-thinking practices all over the world. By leveraging existing technologies that exist in digital dentistry, 3D printing enables better responsiveness to patient needs, significantly reduces manufacturing times, and opens up new treatment options. Taglus Resins are evaluated in accordance with Medical devices -

Part 1 :Evaluation and testing within a riskmanagement process, and ISO 7405:2009 / (R)2015, Dentistry-Evaluation of bio-compatibility of medical devices used in dentistry, and passed the requirements for the following biocompatibility risks: Cytotoxicity, Skin Irritation and Skin Sensitization. The product was developed and is in compliance with the following ISO Standards: Medical Devices - Quality Management Systems - Requirements for Regulatory Purposes EN ISO 13485:2016 from a certified lab who is in compliance with the Quality Management System as per ISO/IEC 17025:2005

WHY CHOOSE TAGLUS RESIN

Taglus Resins are engineered with properties to demonstrate excellent results with respect to 3D printing. Our Dental solutions are designed for use in the dental laboratories, making production methods faster, easier and more effective.

MACHINE COMPATIBILITY

All 3D printers that use DLP & LCD as their printing techniques.

MODEL RESIN

TAGLUS model resin is a material based on meth (acrylate) resin for DLP with 385 nm / 405 nm LED & LCD systems for the production of dental models.

It is a high-precision & high-accuracy resin with a smooth matte surface finish, perfect for dental model making. The resin has High form and break stability; is abrasion, moisture and light resistant.



USES

- Crown & Bridge Models
- Clear Aligner Models
- Orthodontic Models
- Diagnostic Models
- Implant Models
- Stubs

PROPERTY	VALUE	METHOD
Hardness R scale	105	ASTM D 785:2008
Flexural Modulus of Elasticity kgf/cm ²	10433	ASTM D 790-2017
Elongation @ Break %	1.71	ASTM D 638-2014
Tensile Strength kgf/cm ²	205	ASTM D 638-2014
Izod Impact Strength, Notched	23	ASTM D 256 Method A:2010e1
Viscosity MPa	300	ASTM D216-2
Colour	Beige	TM18

SPLINT RESIN

Taglus® Flexible Splint Resin is a light-curing resin for the 3D printing of dental and orthodontic appliances such as splints. It is recommended for use with printers of a (DLP)385nm - 405nm UV light source.

It is a clear, biocompatible and flavourless/odourless resin. Taglus Flexible Splint Resin is strong yet highly flexible and designed for long term use. It offers maximum wear comfort and improves patient compliance. Post processing, it is easy to finish and polish and remains dimensionally stable and abrasion resistant throughout use.



USES

- Occlusal Splints and Repositioners
- Bite Planes
- Night guards
- Anti Snoring Appliances
- Mouth guards

PROPERTY	VALUE	METHOD
Flexural Strength	43–47 MPa	ASTM D790
Flexural Modulus	1100–1300 MPa	ASTM D790
Elongation at Break	> 110%	ASTM D638
Shore D Hardness	85–90 Shore D	ASTM D2240
IZOD Impact (Notched)	43-46 J/m	ASTM D256
Ultimate Flexural Strength	2.5-4.5 MPa	ISO 20795-2
Flexural Modulus	140-200MPa	ISO 20795-2

PROPERTY	VALUE	METHOD
Sorption	< 17 ug/mm ³	ISO 20795-2
Solubility	< 4.5 ug/mm ³	ISO 20795-2
Free Monomer Extraction	PASS	ISO 20795-2
Cytotoxicity	PASS	ISO 10993
Irritation	PASS	ISO 10993
Sensitization	PASS	ISO 10993
Color	Translucent	
Viscosity		600–800 cP
Density		1.0–1.1 g/cm ³

**Denotes Taglus determined passing criteria based on design requirements

These data are typical values and were determined through testing on DLP printers which are validated for use with Taglus® products. Mechanical properties will vary based on machine, part orientation, machine type, machine power, post curing of the printed parts, and cleaning. See product guide for post-processing procedure and best practices. Improper use or failure to adhere to the product guide may result in variations of color and mechanical properties. This product is suitable for the manufacturing of flexible dental appliances such as splints, mouthguards, and nightguards. Taglus® reserves the right to change material characteristics, and formulation without prior notification.

TEMPORARY RESIN

Taglus temporary material is a light cure, biocompatible material for the 3D printing of temporary crowns and bridges. The balance between inorganic fillers and the resin gives the material its high strength and wear resistance making it highly resistant to breaking and abrasion.

The material is easy to finish and polish, and can be stained with all types of composite staining kits. Due to the perfect balance between opacity and translucency the printed crown blends in perfectly between the existing teeth for a natural look.



USES

- Temporary Crown & Bridges

PROPERTY	VALUE	METHOD
Hardness R Scale	105	ASTM D 785:2008
Flexural Modulus of Elasticity kgf/cm	10433	ASTM D 790-2017
Elongation @ Break %	1.71	ASTM D 638-2014
Tensile Strength kgf/cm	205	ASTM D 638-2014
Izod Impact Strength, Notched	23	ASTM D 256 Method A:2010e1
Viscosity MPa	300	ASTM D216-2
Colour	A1,A2,A3,A4	TM18

PROPERTY	VALUE	METHOD
Steam Sterilization @ 134 °C Autoclave	Pass	ISO 10993
Cytotoxicity	Pass	ISO 10993
Irritation	Pass	ISO 10993
The product was developed and is in compliance with the following ISO Standards:		ISO 13485:2016



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