TAGLUS®

Aligner & Retainer Sheets | Blanks | Resins

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TABLE OF CONTENTS

VS/MKT/CTG/04

ABOUT TAGLUS

Aligner & Retainer Sheets | Blanks | Resins

Taglus started with a mission to offer newer, innovative production solutions for dental laboratories and practices globally. Over the years, it has established itself as a distinguished brand for thermoplastic aligner and retainer sheets. Having earned the essential international quality assurance certifications, Taglus materials conform to the highest quality standards.

Taglus is committed to being the best solution while delivering leading-edge technology with a customer-first mindset every step of the way.
Through our continuous efforts to improve performance; we ensure the highest possible product quality and value to meet the patient's needs and expectations. Our niche products will enable dental professionals to transform smiles with higher predictability, improved outcomes, and enhanced patient satisfaction.

Our vision is to continue to be recognized as the best-in-class through innovation, unmatched quality, and the highest standards of service through our products. Based on our core values of integrity and commitment to excellence we continue to build relationships with our clients based on trust and satisfaction.

TAGLUS® PU FLEX

The Smartest Polyurethane Material


TAGLUS PU FLEX
The Smartest Polyurethane Material

WHAT IS TAGLUS PU FLEX?

Taglus® PU Flex is a homogeneous single-layered polyurethane sheet that consists of linear polymeric chains made of alternating flexible and rigid segments. It is a high-performance aligner and retainer material that provides excellent flexibility, strength, and durability, while also providing comfort for the wearer.

ABOUT TAGLUS PU FLEX

Taglus® PU flex comprises of flexible segments that have a low glass transition temperature while the rigid segments exhibit a high melting point. This eliminates the multilayer formation yet achieves all its properties in a single layer. The unique modification of these phases makes it possible to have properties such as cold-flexibility, soft-touch, wear and abrasion resistance, chemical resistance, scratch and tear resistance.

DIMENSIONS

	Thickness (mm)
⌀ 125mm	0.45
⌀ 120mm	0.76
	1.02

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Neither Vedia Solutions nor its marketing affiliates will be responsible for the use of this information or any product method or device mentioned, and you must make your own determination of its suitability and completeness for your own use and purchasers of your products.
NO WARANTEE IS MADE OF THE MERCHANTABILITY OR SUITABILITY OF ANY PRODUCT AND NOTHING HEREIN STATES ANY OF THE SELLER'S TERMS OF SALE.

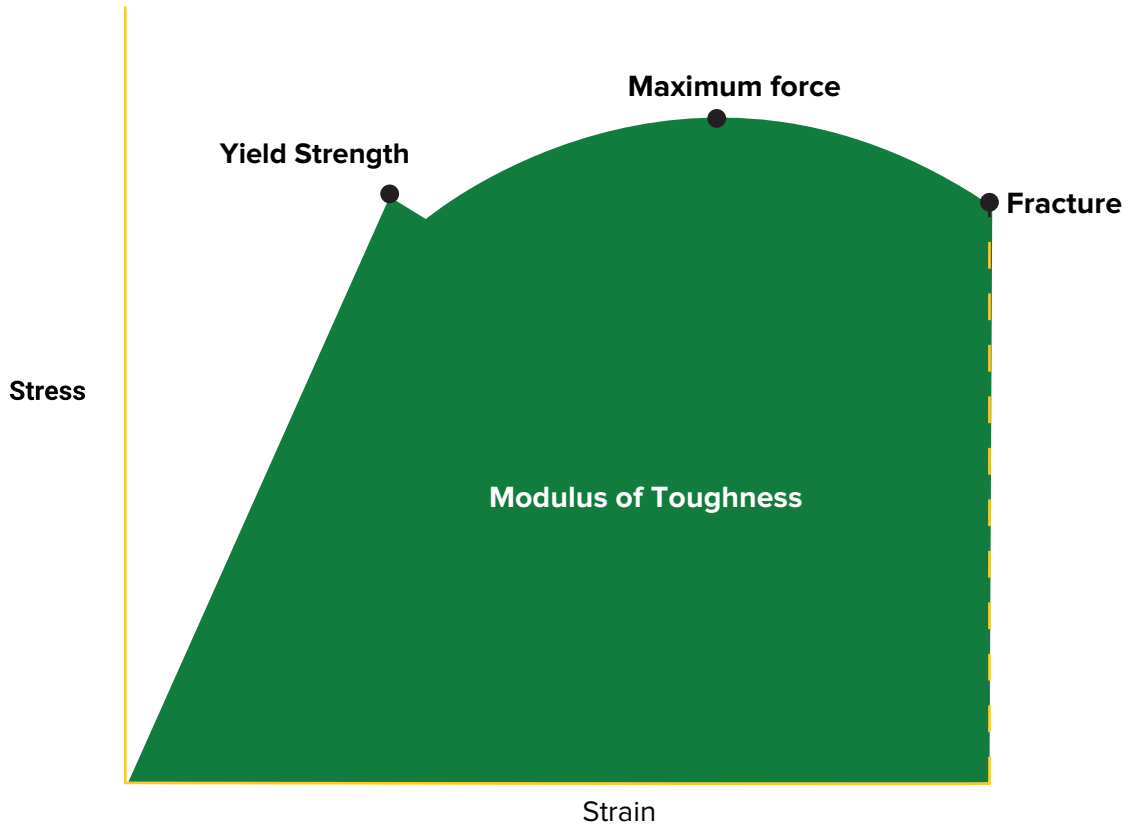
PHYSICAL PROPERTIES

TENSILE & FLEXURAL STRESS

In applications where plastic films are designed to withstand orthodontic forces in an aligner, the mechanical properties of polymers namely Strength, Stiffness & Toughness play a vital role. Such properties of Taglus® PU Flex sheets when investigated using standardized test methods, e.g. tensile stress as per ASTM D 638: 2014 by briefly applying load in one direction the approximate results and values observed during such test, demonstrate that Taglus® PU Flex has the highest tensile stress at the break in its class approximately equal to 68 MPa and the Flexural stress as per ASTM D 790 is extremely high to approximately about 90 Mpa. So, it is an optimal balance of rigidity with elasticity. The test was performed by a NABL accredited Laboratory complying with ISO/IEC 17025 Laboratory Management System.

TOUGHNESS:

Owing to the presence of alternating flexible and rigid segments, the polymer toughness is highly increased. When measured Un-notched Izod Impact Strength as per ASTM D 4812 @73°F (23°C) in 0.125" thickness, the value was approximately 24 ft·lbf/in (No Break) or 1,282 J/m (No Break) indicating it is a virtually unbreakable aligner thermoforming foil.



ELONGATION AT BREAK:

Taglus® PU Flex sheets have a very high value of elongation at break. With an approximate value of 270%, the material can stretch up to 270 percent of its original dimensions before it breaks, this eliminates the worries of aligner cracking.

WATER ABSORPTION

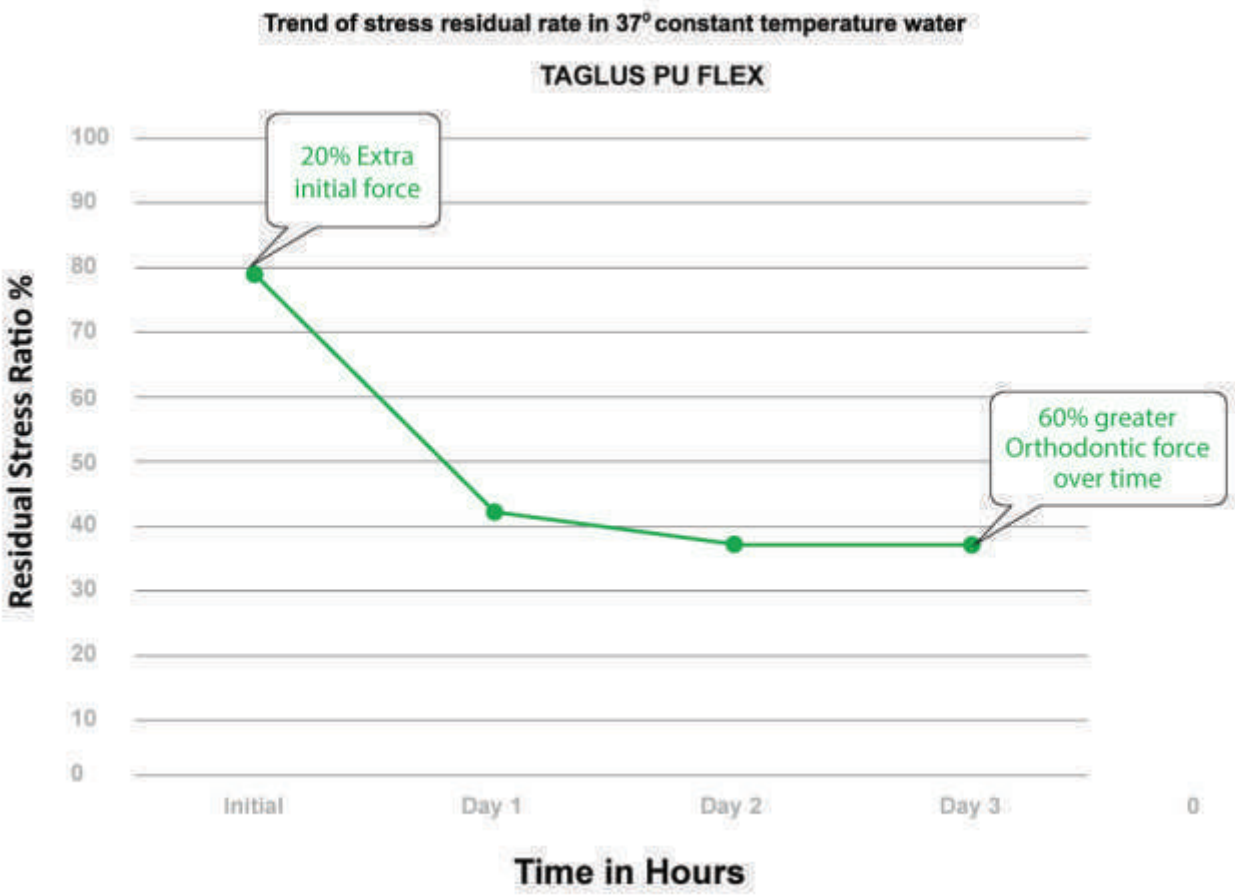
The water absorption data is important to understand the performance of the Taglus® PU Flex sheets during processing e.g. Thermoforming as well as in water or humid environments especially in saliva in the mouth, to avoid premature moisture-related failures. Taglus® PU Flex sheets when tested for 24 hours water absorption test exhibited only 0.22% weight changes against the industry-accepted chemical resistance standard of <3%.

CLARITY:

The photographs of Taglus® PU Flex sheets when compared with other PU-based aligner sheets show a noticeable difference in the clarity of the object placed at a distance from the sheet. Taglus® PU Flex sheets have the highest clarity in their class of other PU-based aligner thermoforming foils.

STRESS RELAXATION:

Taglus® PU Flex samples tested at temperature 37°C with sample width 0.5", length 2" along with UTM instrument parameters as span 1", pressure head 5mm with pressure 0.5mm, withhold time initial, 24h, 48h, 72h, and 120h, for a range of orthodontic forces from 0.9 to 1.5N it was found that the stress relaxation rate was as low as 0.0172 N/h to 0.0074 N/h for a stress residual ratio of 80.3% to a drop 31.45%. This gives 20% more initial force than other PU materials which would be an optimal orthodontic force required to move the teeth from their initial position as per the law of inertia and maintains 50% more orthodontic force over its functional time.



The Raw Material Used To Make Taglus Is Compiled According To Various Agencies Around The World As Follows

BIOCOMPATIBILITY TESTING

TAGLUS thermoforming files have passed biocompatibility testing namely skin sensitization , in vitro cytotoxicity and skin irritation test as a regulatory requirement for demonstrating the preclinical safety of medical devices, this is evaluated in accordance with the standard guideline, published by the US FDA “Use of International Standard ISO 10993-1, “Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process” which can be accessed at https://www.fda.gov/media/download, issued on September 4th 2020 and originally published on June 16th 2016

HEATING INSTRUCTIONS:

	0.018” (0.45mm)	0.030” (0.762mm)	0.042” (1.020mm)
BioSTAR MiniSTAR / MiniSTAR S	Code 122/ Code 132	Code 132/ Code 142	Code 142/ Code 152
Dreve Drufomat Scan	Heating - 0.55 Cooling - 1.20	Heating - 1:05 Cooling - 1:30	Heating - 1:10 Cooling - 1:40

MiniSTAR / BioSTAR are trademarks of Scheu Dental Technology. Drufomat Scan is trademark of Dreve Dentamid. Erkodent is trademark of ERKODENT Erich Kopp GmbH. TRACK®-V is trademark of FORESTADENT® - Bernhard Foerster GmbH

Pressure should be set ABOVE 4 Bars. Temperature is at MACHINE default.
Taglus Sheets are protected by masking sheets, remove the protective sheets AFTER thermoforming and finishing.
Above times are general guidelines only, as each individual machine acts slightly different.
If the plastic does not adapt well to the model, add or reduce 5 seconds to heating time until the result is ideal.
If plastic forms folds, results in NOT clear tray OR shows bubble formation, recalibrate your heating element or reduce heating time until the result is ideal.
For any clinical and Lab related questions, please do not hesitate to contact us at info@taglus.com and in case of any serious incident that has occurred in relation to this medical device contact us at info@taglus.com and the competent authority of the Member State in which the user and/or patient is established.

TAGLUS® PREMIUM
The Finest Aligner Material


BPA FREE
TAGLUS® PREMIUM
The Finest Aligner Material
Thermoforming Foils
Folhas de termoformação
Láminas de termoformado
Термоформовочная фольга
Feuilles de thermoformage
Tiefziehfolien

WHAT IS TAGLUS?

›TOUGH ›TRANSPARENT ›FLEXIBLE

Our addition of special grade glycol to PET removes the hazing effect seen during heating and also prevents an undesirable crystallization. Additionally, the inclusion of glycol in this composition transforms the inner walls of aligner/retainer into a more comfortable material to the patient. So the Taglus premium is an unique engineering combination of elasticity with rigidity and clarity a perfect balance.

ABOUT TAGLUS PREMIUM™

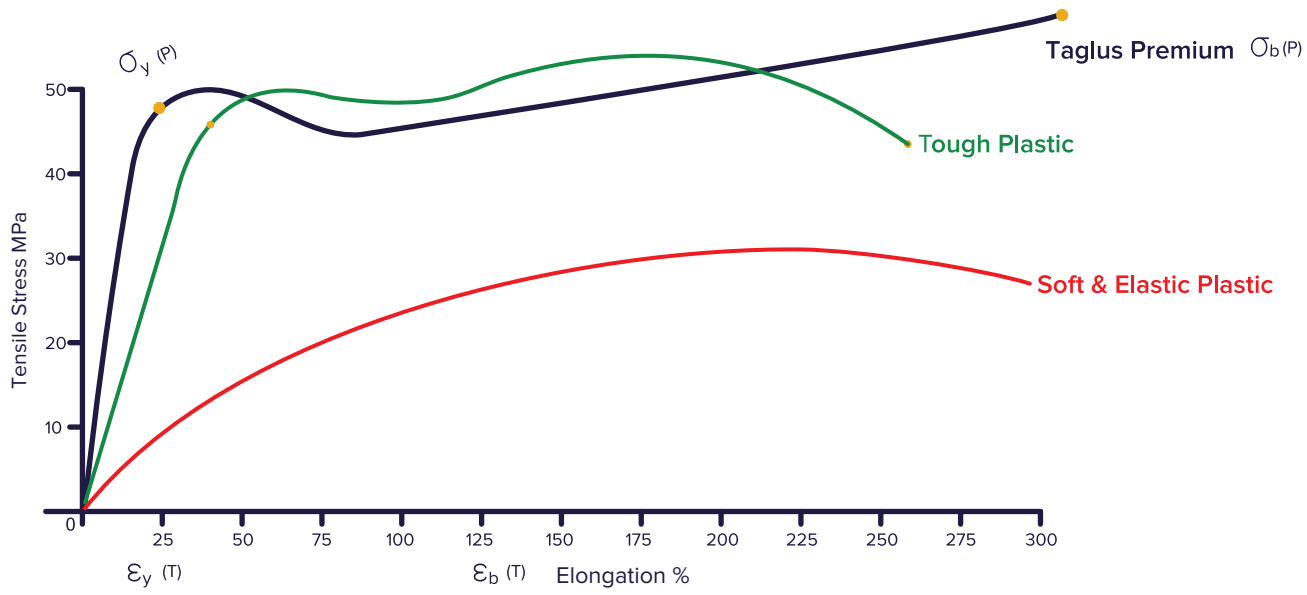
Taglus Premium is an innovative aligner and retainer material with superior material properties and enhanced esthetics. As a unique engineering combination of elasticity with matchless rigidity and crack resistance, it offers the most optical clarity along with stain resistance for enhanced esthetics.

SIZES

DIMENSIONS	THICKNESS (mm)
⌀ 125mm	0.5
⌀ 120mm	0.762
	1.02
	1.5
■ 125mm x 125mm	2.0

Available in Round , Square, Arch & Roll Form

TAGLUS RETAINER & ALIGNER PROPERTIES



TENSILE STRESS

In applications where plastic films are designed to withstand orthodontic forces in an aligner, the mechanical properties of polymers namely Strength, stiffness and toughness play a vital role. Such properties of Taglus premium sheets when investigated using standardised test methods, e.g. tensile stress as per ASTM D 638: 2014 by briefly applying load in one direction the approximate results and values observed during such test, demonstrate that Taglus Premium is a unique balance of rigidity with elasticity. The test was performed by an NABL accreditated Laboratory complying with ISO/IEC 17025 Laboratory Management System.

TENSILE MODULUS OF ELASTICITY

Tensile Modulus, or Youngs Modulus, widely known as the tendency of an object to deform along an axis when opposing forces are applied along that axis; and defined as the ratio of tensile stress to tensile strain. TAGLUS Premium sheets having a very high tensile modulus of approximately upto 1800-2200 MPa, tested as per ASTM D638:2014 give the best crack free aligners and retainers.

The raw material used to manufacture TAGLUS is compiled in accordance with various agencies worldwide as follows:

BIOCOMPATIBILITY TESTING

Taglus thermoforming foils have passed bio compatibility testing namely Skin Sensitization, in vitro Cytotoxicity and Skin Irritation test as a regulatory requirement for demonstrating the preclinical safety of medical devices, this is evaluated in accordance with the standard guideline, published by the US FDA "Use of International Standard ISO 10993-1," Biological evaluation of medical devices – Part 1: Evaluation and testing within a risk management process " which can be accessed at https://www.fda.gov/media/85865/download, issued on September 4th 2020 and originally published on June 16th 2016.

Scan to view test report

WORKING INSTRUCTIONS: HEATING TIME

	0.020" (0.5mm)	0.030" (0.762mm)	0.040" (1.020mm)	0.060" (1.5mm)	0.080" (2.0mm)
BioSTAR MiniSTAR / MiniSTAR S	Code 103/ Code 113	Code 103/ Code 113/ Code 123	Code 113/ Code 123/ Code 133	Code 133/ Code 143 / Code 153	Code 184/ Code 194/ Code 204
Dreve Drufomat Scan	Heating - 0:55 Cooling - 1:20	Heating - 1:05 Cooling - 1:30	Heating - 1:10 Cooling - 1:40	Heating - 1:30 Cooling - 2:00	Heating - 2:00 Cooling - 2:20

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TAGLUS® Standard

The Trusted Aligner Material


BPA FREE
TAGLUS® STANDARD
The Trusted Aligner Material
Thermoforming Foils
Folhas de termoformação
Láminas de termoformado
Термоформовочная фольга
Feuilles de thermoformage
Tiefziehfolien

ABOUT TAGLUS STANDARD™

Taglus standard is a high-performance copolyester product with excellent transparency, chemical resistance, and superior processability. The material is a unique engineering combination of elasticity and rigidity in a perfect balance. This is accompanied by superior aesthetics, high optical clarity, and stain resistance.

SIZE	
DIMENSIONS	**THICKNESS (mm)**
⌀ 125mm	0.762
⌀ 120mm	1.02
■ 125mm x 125mm	

Available in Round , Square, Arch & Roll Form

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Engineered for clear aligners and retainers with superior mechanical properties :

High Flexural modulus of 2098 MPa to give crack free durable aligners and retainers.

Highest Impact strength of 105 J/m Vs all traditional materials available for aligners and retainers, makes it more resistant to deformation and cracks over time.

Light transmission percentage at 90% (according to ASTM D-103) making it optically clear.

Moisture Resistant Dual Protective Masking makes it scratch, dust resistant and ensures the quality of the aligner/retainer is preserved throughout the thermoforming process as well.

INDICATIONS:

CLEAR ALIGNERS

Taglus Standard serve as a fine esthetic and predictable solution of dental alignment problems. Based on the recommendations of certified orthodontist, the aligners generate gentle and consistent forces approximately up to 0.25 mm per aligner in 7 to 15 days days

ORTHODONTIC RETAINER

Can be used to design transparent orthodontic retainers post treatment due its excellent crack resistant properties thereby improving patient compliance.

SURGICAL SPLINT

Taglus Standard can be used to fabricate surgical splints owing to its greater stability, consistently high quality due to zero curing shrinkage. Adequate binding to all types of light and heat cured acrylics and precise adaptation to the model under pressure adds to its popularity as a splint material.

WORKING INSTRUCTIONS: HEATING TIME

	0.030” (0.762mm)	0.040”/ (1.020mm)
BioSTAR MiniSTAR / MiniSTAR S	Code 103/ Code 113/ Code 123	Code 113/ Code 123/ Code 133
Dreve Drufomat Scan	Heating - 1:05 Cooling - 1:30	Heating - 1:10 Cooling - 1:40

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For any and ALL clinical and Lab related questions, do not hesitate to contact us at info@taglus.com

THERMOFORMING ALIGNER SHEETS

Available in : Arch | Round 120 | Round 125 | Square | Roll form

TAGLUS TUFF

The Ultimate Retainer Material (*Patent Pending*)


TAGLUS TUFF
The Ultimate Retainer Material
Thermoforming foils
BPA & LATEX FREE
info@taglus.com
www.taglus.com

WHAT IS TAGLUS?

›TOUGH ›TRANSPARENT ›FLEXIBLE

Our addition of special grade glycol to PET removes the hazing effect seen during heating and also prevents an undesirable crystallization. Additionally, the inclusion of glycol in this composition transforms the inner walls of aligner/retainer into a more comfortable material to the patient. So the Taglus Tuff is unique engineering combination of elasticity with rigidity and clarity - a perfect balance.

ABOUT TAGLUS TUFF™

Uniaxially oriented amorphous material with polymer chain locked together in a non specific lattice structure.

SIZES

Dimensions	Thickness (mm)
⌀ 125mm ⌀ 120mm	0.80
■ 125mm x 125mm	

Available in Round , Square, Arch & Roll Form

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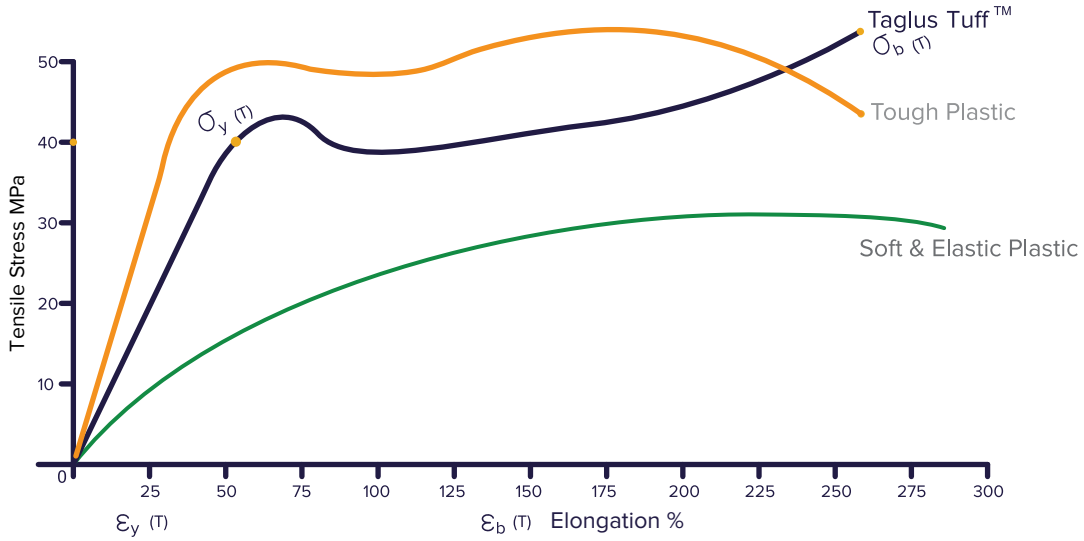


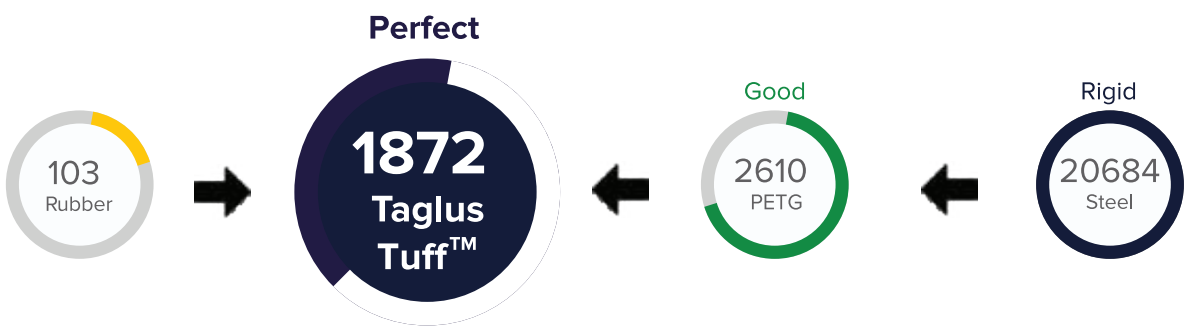
TOUGHNESS

The unique balance of mechanical properties makes TAGLUS Tuff Sheets superior in strength as well as toughness, making it an ideal material for long term retainers. The retainers fabricated out of this material remain crack-free even after prolonged use in ideal cases.

The properties of Taglus Tuff sheets when investigated using standardized test methods, eg. tensile stress as per ASTM D 638:2014 by briefly applying load in one direction the approximate results and values observed during such test, demonstrate that Taglus Tuff sheets are a unique balance of strength and toughness. The test was performed by an NABL accredited Laboratory complying with ISO/IEC 17025 Laboratory Management System.

TENSILE MODULUS

Tensile Modulus, or Youngs Modulus, widely known as the tendency of an object to deform along an axis when opposing forces are applied along that axis; it is defined as the ratio of tensile stress to tensile strain. Taglus Tuff having a very high tensile modulus of approximately upto 1872MPa, tested as per ASTM D638:2014 makes it the best comfortable aligners and retainers.



CLARITY

The photographs of Taglus Tuff when compared with other PU Based aligner sheets shows a noticeable difference in the clarity of the object placed at a distance from the sheet. Taglus Tuff has the highest clarity in its class.

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BIOCOMPATIBILITY TESTING

Taglus Tuff sheets have passed biocompatibility testing namely Skin Sensitization, in vitro Cytotoxicity and Skin Irritation test as a regulatory requirement for demonstrating the preclinical safety of medical devices, this is evaluated in accordance with the standard guideline, published by the US FDA "Use of International Standard ISO 10993-1," Biological evaluation of medical devices – Part 1: Evaluation and testing within a risk management process " which can be accessed at https://www.fda.gov/media/85865/download, issued on September 4th 2020 and originally published on June 16th 2016.

WORKING INSTRUCTIONS: HEATING TIME

	0.030 " 0.8mm
BioSTAR MiniSTAR / MiniSTAR S	Code 113
Dreve Drufomat Scan	Heating - 1:05 Cooling - 1:30

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THERMOFORMING RETAINER SHEETS

TAGLUS TUFF
The Ultimate Retainer Material (*Patent Pending*)

TAGLUS ARCH

Patent - Pending*


TUFF
TAGLUS ARCH
PREMIUM
TAGLUS ARCH
STANDARD
TAGLUS ARCH

Over the years Taglus has grown to become one of the world's leading providers of newer, technologically advanced dental products. Uncompromised quality and customer focus have been important goals throughout this journey. As we continue to grow, we have decided to step up and expand our goals. This new year, we are happy to announce that Taglus now commits to greener smiles.

INTRODUCING,
TAGLUS ARCH

Patent-pending, unique dental arch-shaped thermoforming sheets. Clear, biocompatible, and durable, the Taglus Arch variant is available with both Taglus Premium and Taglus Tuff.

MAKE A DIFFERENCE WITH TAGLUS ARCH

LESS WASTAGE

During fabrication, a considerable amount of sheet around the thermoformed appliance is discarded and generates waste. With continuous research and development, we innovated an exclusive design that reduces the thermoplastic material consumption per appliance without affecting its clinical performance. The distinct design of Taglus Arch sheets represents our commitment to creating positive environmental changes.

COST- EFFECTIVE

Even though the production process is more complex we have managed to reduce the price while keeping the same quality that we pride on for our Taglus customers.

EASY FINISHING

Another highlight of Taglus Arch sheets is the presence of 5 distinct slits at the periphery. They facilitate trimming off excess material post-fabrication and allow for convenient removal of the appliance from the model.

WHY UPGRADE TO TAGLUS ARCH?

GREATER VALUE WITH REVISED PRICING

PROMOTE SUSTAINABLE DENTISTRY

MORE CONVENIENT WORKFLOW

AVAILABLE THICKNESS

Taglus Premium	0.020” (0.5mm)	0.030” (0.762mm)	0.042” (1.020mm)

Taglus Tuff	0.030” (0.8mm)

Taglus Standard	0.030” (0.762mm)	0.042” (1.020mm)

WORKING CODES :

Time to Heat

Taglus Premium and Standard					
	0.020” (0.5mm)	0.030” (0.762mm)	0.042” (1.020mm)	0.060” (1.5mm)	0.080” (2.0mm)
BioSTAR MiniSTAR/ MiniSTAR S	Code 103/ Code 113	Code 103/ Code 113/ Code 123	Code 113/ Code 123/ Code 133	Code 133 / Code 143 / Code 153	Code 184 / Code 194 / Code 204
Dreve Drufomat Scan	Heating - 0:55 Cooling - 1:20	Heating - 1:05 Cooling - 1:30	Heating - 0:10 Cooling - 1:40	Heating - 1:30 Cooling - 2:00	Heating - 2:00 Cooling - 2:20

Taglus Tuff Retainer	
	0.030” (0.8mm)
BioSTAR MiniSTAR/ MiniSTAR S	Code 113
Dreve Drufomat Scan	Heating - 1:05 Cooling - 1:30

Pressure should be set ABOVE 4 Bars. Temperature is at MACHINE default.

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For any clinical and Lab related questions, please do not hesitate to contact us at info@taglus.com and in case of any serious incident that has occurred in relation to this medical device contact us at info@taglus.com and the competent authority of the Member State in which the user and/or patient is established.

HOW TO USE **TAGLUS ARCH ?**

Taglus Arch aims to lower manufacturing costs by eliminating the investment in expensive and space consuming equipment.We have innovated an exclusive Taglus Arch Adaptor Kit that can easily be used with thermoforming units such as Biostar, Ministar, Erkodent, Dreve Drufomat. It has components that serve as extensions and can be placed over your existing thermoforming unit.

TAGLUS ARCH ADAPTOR KIT

3D PRINTING RESINS


TAGLUS
MODEL RESIN
Shade : Beige
Contents : 1000 G
LOT # :
REF # : VS066
:
Vestia Solutions
(A division of LDEPL)
info@taglus.com
www.taglus.com
DIGITAL LIGHT PROCESSING (DLP)

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

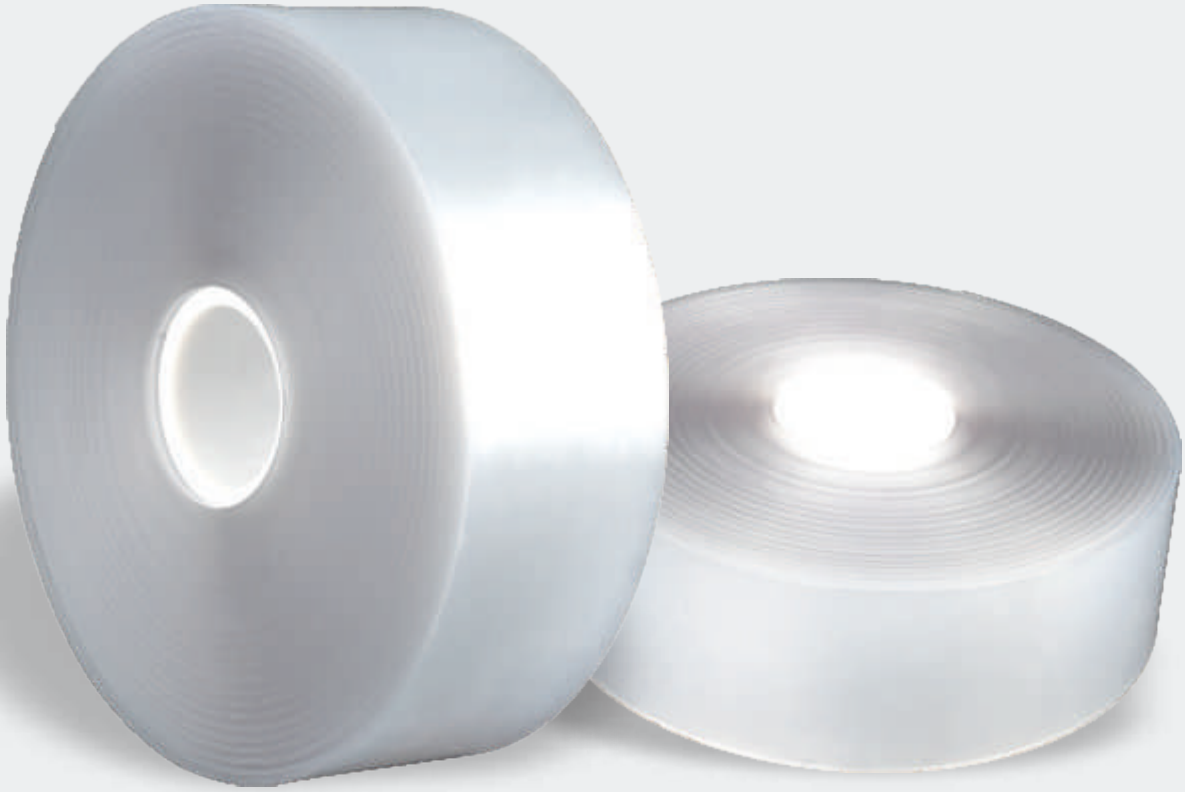
TAGLUS model resin is a material based on meth (acrylate) resin for DLP with 385 nm / 405 nm LED &. LCD systems for the production of dental models.
It is a high-precision & high-accuracy resin with a smooth matte surface finish, perfect for dental model making. The resin has High form and break stability & 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
Viscocity MPa	300	ASTM D216-2
Colour	Beige	TM18

AUTOMATED THERMOFORMING



ALIGNER AND RETAINER SHEETS NOW AVAILABLE IN ROLL FORM

VALIDATED BY HAMER

FILM ROLLS

Validated by Hamer Systems, we offer customized solutions for automated aligner thermoforming. Available in varying dimensions with Taglus Premium, Standard and Tuff, Taglus film rolls aim to increase production rate while reducing material usage and costs.

PRODUCT	THICKNESS	TVP
TAGLUS PREMIUM	0.8 mm	TVP12
		TVP25 (1 ROW)
		TVP25 (2 ROWS)
	1.02mm	TVP12
		TVP25 (1 ROW)
		TVP25 (2 ROWS)
TAGLUS STANDARD	0.8mm	TVP12
		TVP25 (1 ROW)
		TVP25 (2 ROWS)
	1.02mm	TVP12
		TVP25 (1 ROW)
		TVP25 (2 ROWS)
TAGLUS TUFF	0.8 mm	TVP12
		TVP25 (1 ROW)
		TVP25 (2 ROWS)
TAGLUS PU FLEX	0.45mm	TVP12
		TVP25 (1 ROW)
		TVP25 (2 ROWS)
		TVP12
		TVP25 (1 ROW)
	0.75 mm	TVP25 (2 ROWS)
		TVP12
		TVP25 (1 ROW)
	1.02mm	TVP25 (2 ROWS)

SCAN TO VIEW THE PRICELIST

CERTIFIED BY

ISO 13485:2016

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