



TAGLUS[®] PREMIUM
The Finest Aligner Material

CERTIFIED BY



EMERGO EUROPE
Prinsessegracht 20
2514 AP The Hague
The Netherlands

TGA Health Safety
Regulation
Australia & NZ

ANVISA
Brazil & South America

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 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

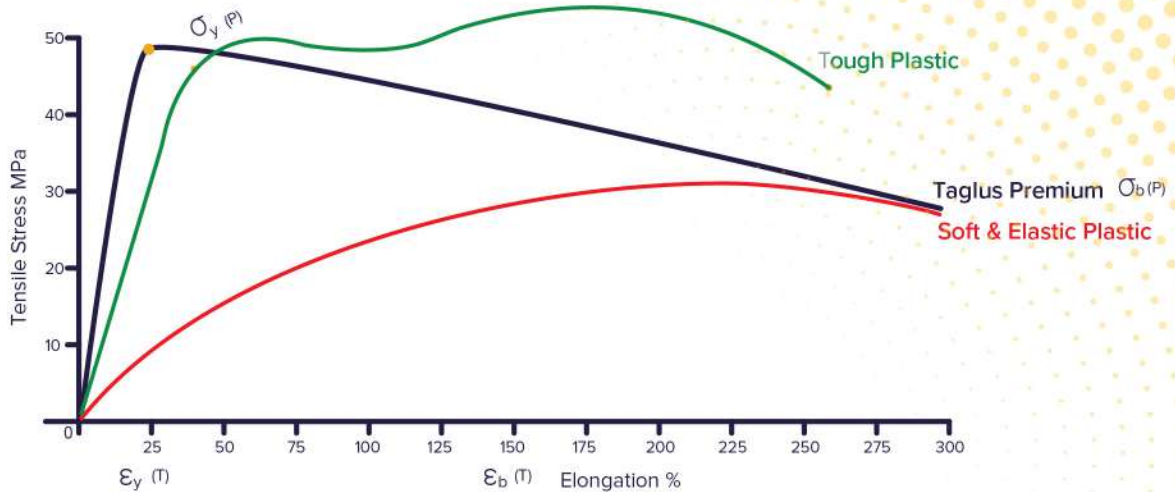
Dimensions	Thickness (mm)
∅ 125mm	0.5
∅ 120mm	0.762
∅ 120mm	1.02
■ 125mm x 125mm	1.5
■ 125mm x 125mm	2.0

*Some variations are inherent in plastic testing, and the preceding data is considered to be representative approximate of the average values. Vedia Solutions makes no representation that the material in any representation that the material in any particular shipment confirm exactly to the given values. Conversions of metric / U.S. customary values may have been rounded off and therefore may not be exact conversions.

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TAGLUS RETAINER AND 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 & 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

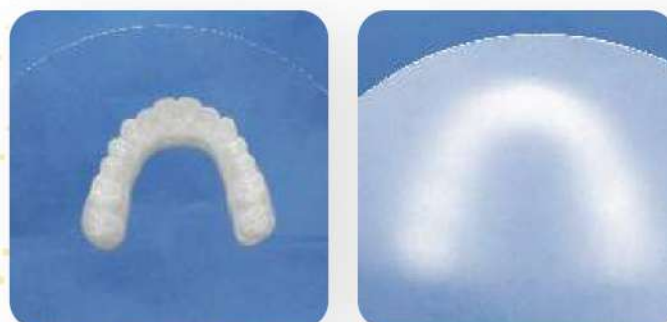
638: 2014 by briefly applying load in one direction the approximate results and values observed during such test, demonstrate that Taglus Premium is a unique balance of rigidity with elasticity. The test was performed by an NABL accredited Laboratory complying with ISO/IEC 17025 Laboratory Management System.

TENSILE MODULUS OF ELASTICITY

Tensile Modulus, or Young's 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 2610 MPa, tested as per ASTM D638:2014 give the best crack free aligners and retainers.

CLARITY

The photographs of Taglus Premium 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 Premium has highest clarity in its class.



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

BIOCOMPATIBILITY TESTING

Taglus thermoforming foils 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 in September 4th 2020 and originally published in June 16th 2016.

WORKING INSTRUCTIONS: HEATING TIME

	<u>0.020"</u> (0.5mm)	<u>0.030"</u> (0.762mm)	<u>0.040"</u> (1.020mm)	<u>0.060"</u> (1.5mm)	<u>0.080"</u> (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 Druformat 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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Pressure should be set ABOVE 4 Bars. Temperature is at MACHINE default.

Taglus Sheets are protected by masking sheets on both sides, remove the protective sheets AFTER thermoforming and finishing.

Above timers are general guidelines only as each individual machines 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 form folds, result is NOT clear tray OR showbubble formation, recalibrate your heating element or reduce heating time until the result is ideal.

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



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