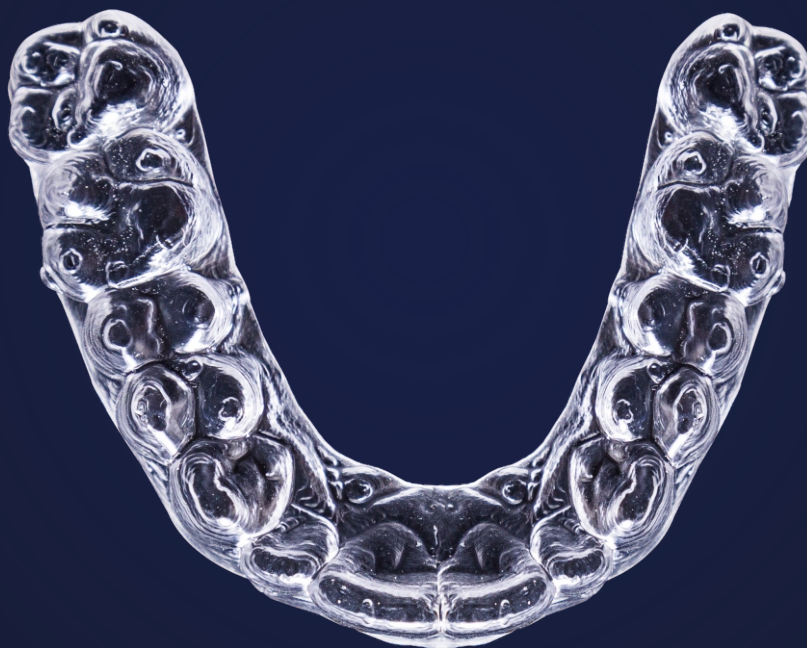




A Perfect Combination of Elasticity, Clarity And Rigidity
Aligner and Retainer Sheets





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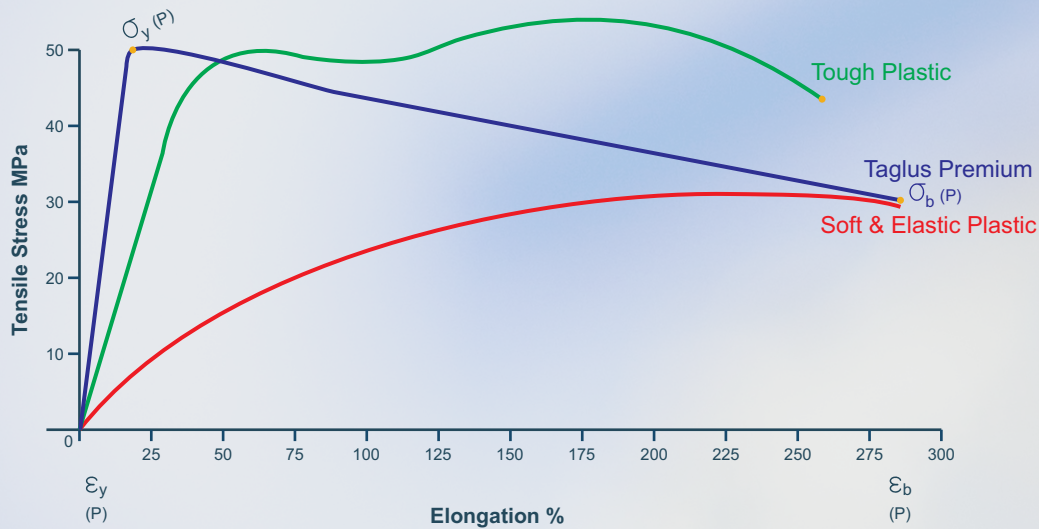
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TAGLUS PREMIUM ALIGNER & RETAINER PROPERTIES

01 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.

02 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 2610 MPa, tested as per ASTM D638:2014 makes it the best crack free aligners and retainers.

03 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.





What is TAGLUS

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)
Ø 125mm	0.5
	0.762
Ø 120mm	1.02
	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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The raw material used to manufacture TAGLUS is complied 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.

Certifications:

CE	TGA	ANVISA
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Working Instructions: Heating Time

	0.020" (0.5mm)	0.030" (0.762mm)	0.040" (1.020mm)	0.050" (1.5mm)	0.060" (2.0mm)
BioSTAR MiniSTAR/ MiniSTAR S	Code 103 or 15 seconds	Code 113	Code 123	Code 143	Code 194
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 - 1:60	Heating - 1:60 Cooling - 1:80

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



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