



# TAGLUS<sup>®</sup> TUFF

The Ultimate Retainer Material



Thermoforming foils



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# TAGLUS<sup>®</sup> TUFF

The Ultimate Retainer Material (\*Patent Pending\*)

CERTIFIED BY



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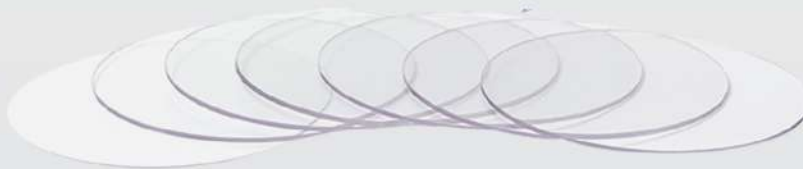
**TGA** Health Safety  
Regulation  
Australia & NZ

 **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 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.

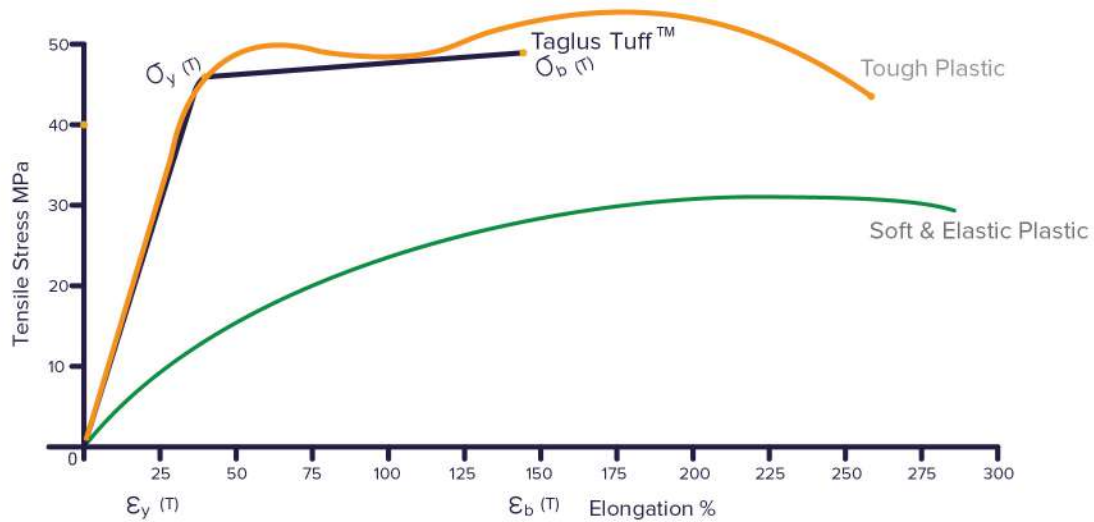
### SIZES

Dimensions	Thickness (mm)
∅ 125mm	0.83
∅ 120mm	
■ 125mm x 125mm	

\*\*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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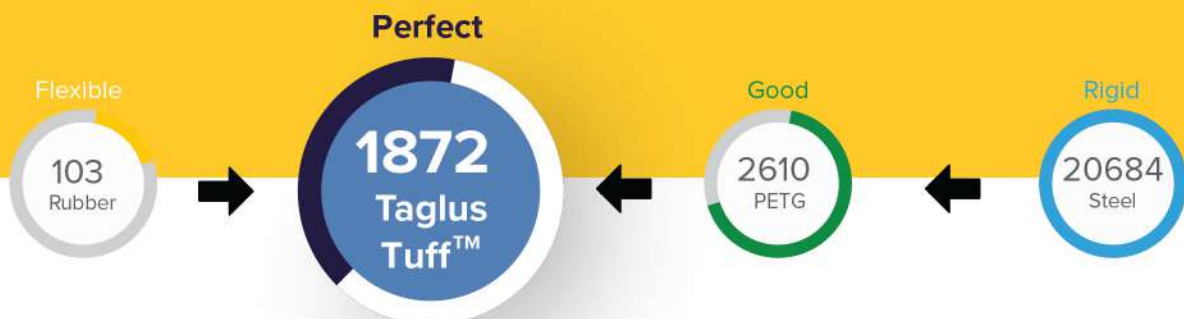
## TOUGHNESS

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, 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 Tuff sheets is 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 Young's 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 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 Tuff™ sheet 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 assessed at <https://www.fda.gov/media/85865/download>, issued on September 4th 2020 and originally published on 16th June 2016.

## WORKING INSTRUCTIONS:HEATING TIME

0.033 ”  
0.83mm

BioSTAR MiniSTAR / MiniSTAR S	Code 113	Code 123
Dreve Drufomat Scan	Heating - 1:05 Cooling - 1:30	Heating - 1:10 Cooling - 1:40

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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](mailto:info@taglus.com)



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