



ALIGNER & RETAINER SHEETS

# TEST REPORTS



# TABLE OF CONTENTS

<b>Sr No</b>	<b>Contents</b>	<b>No</b>
<b>1</b>	<b>Product Portflilio</b>	<b>3 - 4</b>
<b>2</b>	<b>Taglus PU Flex Test Performed</b>	<b>5 - 8</b>
<b>3</b>	<b>Taglus Premium Test Performed</b>	<b>9 - 11</b>
<b>4</b>	<b>Taglus Standard Test Performed</b>	<b>12 - 14</b>
<b>5</b>	<b>Taglus Tuff Test Performed</b>	<b>15 - 18</b>
<b>6</b>	<b>Biocompatibilty Test Performed</b>	<b>19</b>
<b>7</b>	<b>Mechanical Test Performed</b>	<b>20</b>
<b>8</b>	<b>Glimpse of Taglus Manufacturing Unit</b>	<b>21</b>



# Product Portfolio

Being Responsive To The Trends In Dentistry,  
Taglus Offers An Extensive Product Line  
That Includes Modern, Digitally Driven  
Production Solutions

## ALIGNER SHEETS

---

- ◆ Taglus PU Flex
- ◆ Taglus Premium
- ◆ Taglus Standard

## RETAINER SHEETS

---

- ◆ Taglus Tuff

## NEW LAUNCH

---

- ◆ Taglus Arch

## TAGLUS 3D PRINTING RESINS

---

- ◆ Model Resin

## AUTOMATED THERMOFORMING SOLUTIONS

---

- ◆ Taglus Film Rolls



A thick yellow curved line starts from the left edge of the slide and curves upwards and to the right, ending above the 'ALIGNER SHEETS' text.

# ALIGNER SHEETS

The TAGLUS PU FLEX logo is inside a green rounded rectangle. It features the TAGLUS logo icon followed by 'PU FLEX' in a white, sans-serif font.

**TAGLUS PU FLEX**  
The Smartest Polyurethane Material

The TAGLUS PREMIUM logo is inside a dark blue rounded rectangle. It features the TAGLUS logo icon followed by 'PREMIUM' in a white, sans-serif font.

**TAGLUS<sup>®</sup> PREMIUM**  
The Finest Aligner Material

The TAGLUS STANDARD logo is inside a light blue rounded rectangle. It features the TAGLUS logo icon followed by 'STANDARD' in a white, sans-serif font.

**TAGLUS<sup>®</sup> STANDARD**  
The Trusted Aligner Material

# PU FLEX



# BIOCOMPATIBILITY TESTS

In Vitro Cytotoxicity NRU Elution

Cytotoxicity - Quantitative Growth Inhibition test,  
In vitro cytotoxicity test – MEM Elution method

Bacterial Reverse Mutation (AMES) Test

Maximization Test according to Magnusson and  
Kligman , 1Extract, Skinsensitization test  
(GPMT method)

Skin Sensitization Study

Intracutaneous Reactivity Test

Skin Irritation

Oral Mucosa Irritation



# SPECIAL TESTS

In Vitro Mammalian Chromosomal Aberration

Subacute (28-days) Systemic Toxicity Study

In Vitro Mammalian Cell Gene Mutation Test

# MECHANICAL TESTS

Foils & Film FTIR Analysis

Stain Resistant

Gardner Impact Stain Resistant

Mechanical Properties

Plastic Film Test Certification

Thermoformability Report



# PREMIUM



# BIOCOMPATIBILITY TESTS

In Vitro Cytotoxicity

Cytotoxicity - Quantitative Growth Inhibition test,  
In vitro cytotoxicity test – MEM Elution method

Skin Irritation

Maximization Test according to Magnusson and  
Kligman , 1Extract, Skin sensitization test  
(GPMT method)

Bacterial Reverse Mutation (AMES) Test

Intracutaneous Reactivity Test

Skin Sensitization Study

Oral Mucosa Irritation

# MECHANICAL TESTS

Gardner Impact Stain Resistant

Shelf Life Study

Mechanical Properties

Stain Resistant

Plastic Film Test Certification

Stress Relaxation

Thermoformability Report



# STANDARD



# BIOCOMPATIBILITY TESTS

In Vitro Cytotoxicity NRU Elution

Skin Irritation

Skin Sensitization Study

# MECHANICAL TESTS

Gardner Impact Stain Resistant

Stain Resistant



A thick yellow curved line starts from the left edge of the slide and curves upwards and to the right, ending above the title text.

# RETAINER SHEETS



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

**TUFF**



# BIOCOMPATIBILITY TESTS

In Vitro Cytotoxicity NRU Elution

Skin Irritation

Skin Sensitization Study

Cytotoxicity - Quantitative Growth Inhibition test,  
In vitro cytotoxicity test – MEM Elution method

Maximization Test according to Magnusson and  
Kligman , 1Extract, Skin sensitization test  
(GPMT method)

Intracutaneous Reactivity Test

Oral Mucosa Irritation

Bacterial Reverse Mutation (AMES) Test



# MECHANICAL TESTS

Gardner Impact Stain Resistant

Shelf Life Study

Stain Resistant

Mechanical Properties

Stress Relaxation

# Biocompatibility Tests Performed

Test Name	Taglus PU Flex	Taglus Premium	Taglus Tuff
In vitro cytotoxicity: Elution Method	YES	YES	YES
Skin Irritation Test in New Zealand White Rabbits	YES	YES	YES
Skin Sensitization Test in New Zealand White Rabbits/Guinea Pigs	YES	YES	YES
Cytotoxicity - Quantitative Growth Inhibition test, In vitro cytotoxicity test – MEM Elution method	YES	YES	YES
Maximization Test according to Magnusson and Kligman , 1Extract, Skin sensitization test (GPMT method)	YES	YES	YES
Intracutaneous Reactivity Test in New Zealand White Rabbits	YES	YES	YES
Ames-Test, Bacterial reverse mutation (Ames) test –Genotoxicity	YES	YES	YES
Evaluation, Oral mucosa Irritation Test	YES	YES	YES
Acute Systemic Toxicity , Rat, Subacute/Subchronic (28days) systemic toxicity test	YES	NA	NA
Chromosome Aberration Test , V79 Cells (standard test), Chromosomal aberration test – Genotoxicity	YES	NA	NA
MTT - Evaluation, In Vitro Mammalian Cell Gene Mutation Test	YES	NA	NA

# Mechanical Tests Performed

Test Name	Taglus PU Flex	Taglus Premium	Taglus Tuff
Shelf Life Study - Accelerated Aging at 55 °C of Medical Device Packaging Materials simulating 1 year real-time aging	Under Process	YES	YES
Gardner Impact and Stain Resistance Testing	YES	YES	YES
Plastic Film Test	YES	YES	Under Process
Stain Resistance Test	YES	YES	YES
Stress Relaxation Test	Under Process	YES	YES
Peel Test	YES	YES	YES
Tear Strength	YES	YES	YES
Shear Strength	YES	YES	YES
Hardness Shore A/D	YES	YES	YES
Water Absorption	YES	YES	YES
Thermoformability	YES	YES	Under Process



## A Glimpse of Taglus Manufacturing Unit





ALIGNER & RETAINER SHEETS | RESINS | BLANKS

**For More Details Contact**

☎ +91 99309 05047

✉ info@taglus.com

🖱 [www.taglus.com](http://www.taglus.com)