

**FDA 510(k) APPROVED**

# **MINT**<sup>TM</sup>

Minimal Invasive Nonsurgical Thread

Safe  
Raw Material

**PDO-Poly**

Completely  
Absorbed

Minimal  
Tissue Reaction

New Technology

**Molded  
Suture**

Helical Barb

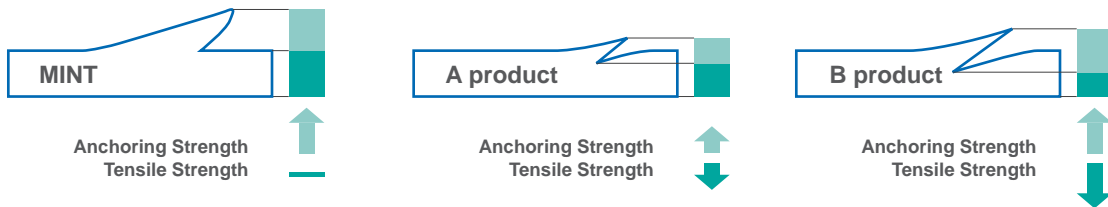
Durable Suture

[www.mintlift.com](http://www.mintlift.com)



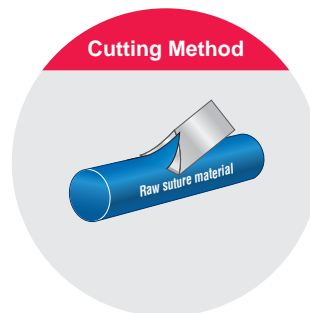
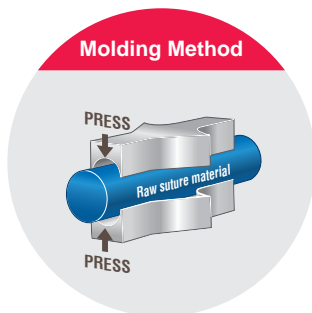
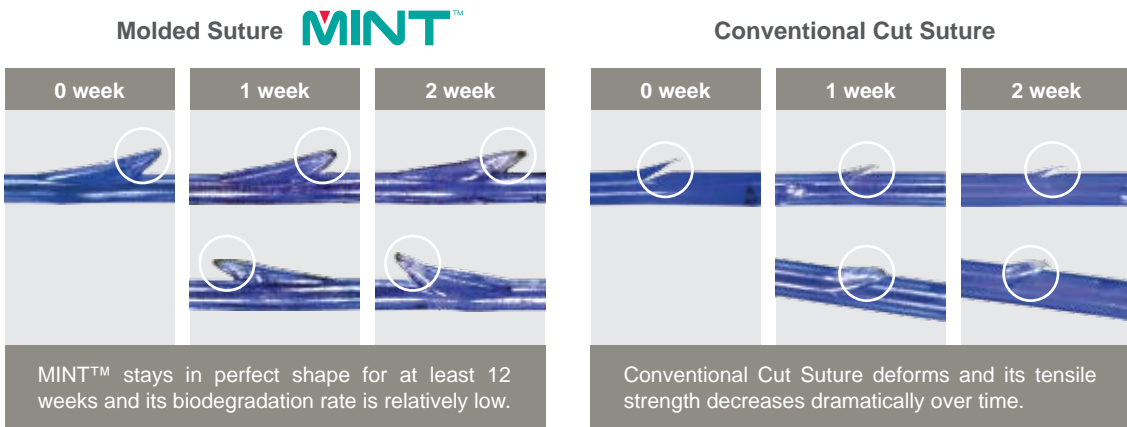
## Optimally Designed Durable Suture

- Advanced molding barb technology provides high tensile strength for a long period
- No tying needed



## ✓ High and Long-lasting Durable Barb

- Degradation of Barbs

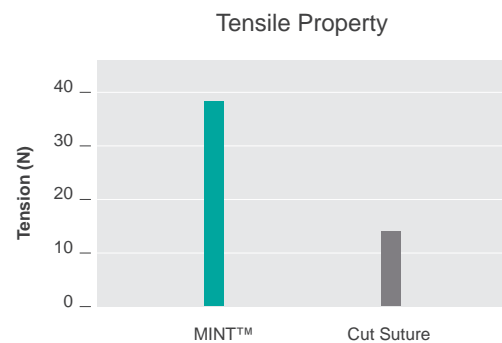
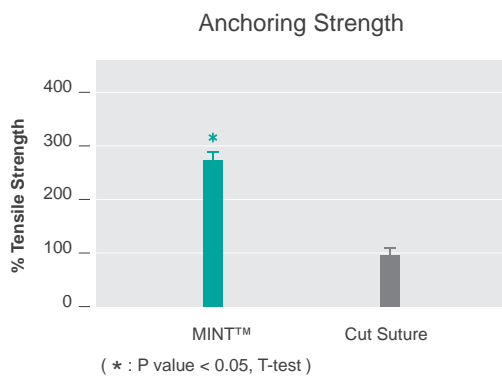


## Helical Configuration Barb

- 360° helically designed barbs provide a strength to approximate soft tissue strongly
- 3D anchoring system

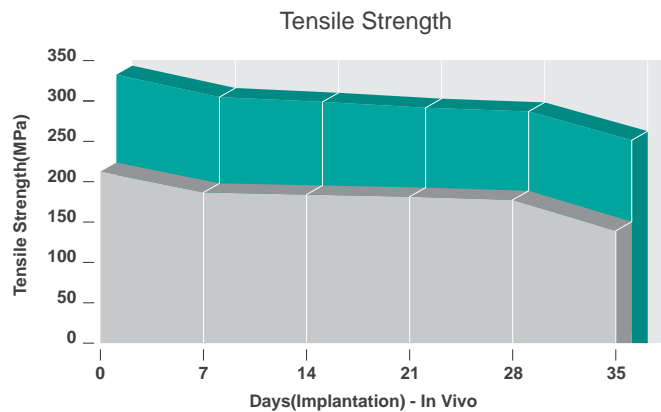


## ✓ Strong Anchoring & Tensile Strength



## - More effective suture

The anchoring strength and tensile strength of MINT™ is 3 times greater than the cut suture. It makes MINT™ more effective for soft tissue approximation for a long time and may prevent the suture from breaking during insertion.



# Safety

# Safe Raw Material

## Safe Raw Material

### ✓ **POLYDIOXANONE**

- High tensile strength
- Extended absorption compared with PGA
- Minimal tissue reaction (Non-Antigenic)
- Minimal trauma to tissue
- Completely absorbed in 180 to 240 days
- Absorption by hydrolysis
- FDA 510(k) approved

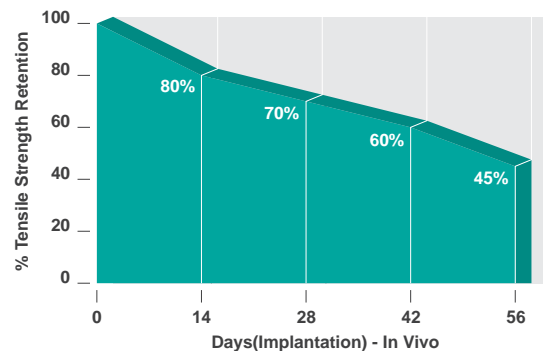


After 60 days, the cogs are still remaining the shape, and the color becomes transparent. And it absorbed in 180 to 240 days.

#### Biocompatibility Testing

TEST	RESULTS
Cytotoxicity study	Pass
Sensitization study	Pass
Acute Intracutaneous Reactivity Study	Pass
Acute Systemic Toxicity Study	Pass
Bacterial Reverse Mutation Study (Ames Test)	Pass
In Vitro Chromosomal Aberration Study	Pass
Micronucleus Study	Pass
Subchronic Toxicity Study and Subcutaneous Implantation	Pass
Muscle Implantation Study	Pass
Endotoxin test	Pass
E.O gas residual test	Pass

#### Polydioxanone Suture Strength Retained



After 8 weeks post operation, clinical trials showed that Polydioxanone sutures maintained 45% of their tensile strength.

### ✓ **Patent Technology**

#### MINT™ is manufactured with a patent new technology

Title of the Invention	Registration Date	Application No.	Patent No.
Absorbable suture having micro cogs on surface and method of manufacture the same	2011.08.11	10-1057376	2010-0102493
Medical suture having micro cogs on surface and method of manufacture the same	2011.08.11	10-1057377	2011-0026122
Nation of Application	USA, UK, France, Italy, Germany, Spain, Russia, China, Japan		



## ✓ **Sterilization**

- MINT™ is packaged in double blister packs with nitrogen gas to prevent any contaminations.
- It is sterilized by EO gas.



Blister

## ✓ **Specification**

Catalogue No.	ML-1043
Raw Material	PDO-Poly(p-dioxanone)
Suture Length	43 cm
USP Size	1
Barb Design	Helical Bi-directional
Unit Per Package	2



Aluminium Pouch

**MINT**<sup>TM</sup>  
Minimal Invasive Nonsurgical Thread

**HANS**  **HansBiomed Corp.**  
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