

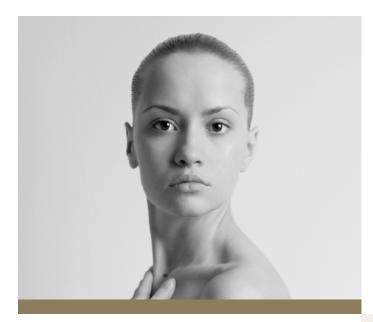
GENERAL OPEN SURGERY

Monomax® 3/0

SPECIALLY ENGINEERED FOR PLASTIC AND RECONSTRUCTIVE SURGERY

Monomax® 3/0

THE MONOFILAMENT ADVANTAGE



THE MAIN ADVANTAGES OF USING A MONOFILAMENT SUTURE ARE:

- Less infection promoting effect
- A more gentle pass through the tissue
- Reliable knotting

Monomax 3/0 CAN BE RECOMMENDED FOR RECONSTRUCTIVE PROCEDURES SUCH AS:

- Breast surgery
- Facial reconstruction
- I Thorax surgery







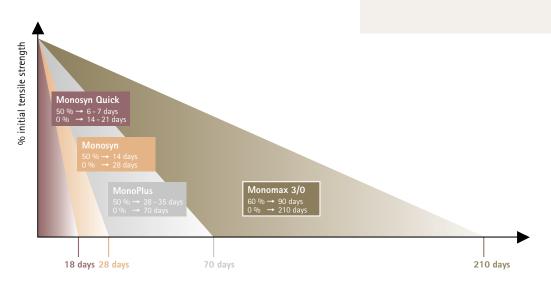
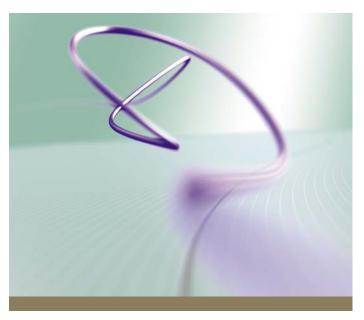


Figure 1: Tensile strength retention of the B. Braun Synthetic Monofilament Sutures



INNOVATION

Monomax is the first suture material made of the patented Poly-4-hydroxybutyrate polymer.

Smooth passage through the tissue and the longest degradation profile existing are some of the benefits that this new generation suture material presents.

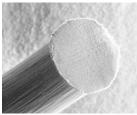
THE ADVANTAGES OF USING MONOFILAMENT SUTURES:

1. Less infection promoting effect^{1,2}



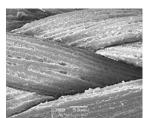
"Monofilament sutures showed a significantly lower level of bacterial infiltration and colonization"2

2. Improved wound healing, due to the smooth passage through the tissue:



Monofilament sutures:

- Smooth surface
- I Low tissue drag
- I Low tissue damage



Braided sutures:

- High frictional coefficient
- High tissue drag
- Normally coated to reduce tissue drag effect

3. Reliable knotting, due to the longitudinal elasticity of monofilaments³

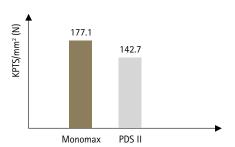
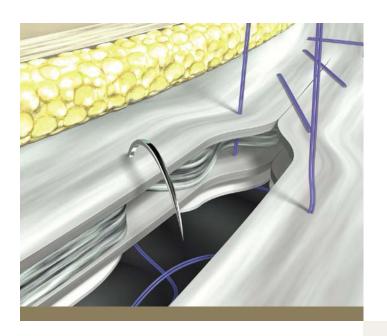


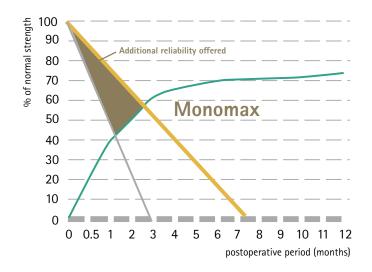
Figure 2: Comparison of knot pull tensile strength (USP 1).

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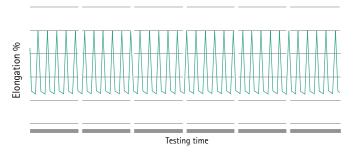
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DEGRADATION PROFILE



CYCLES BETWEEN 5 AND 20 N



Graph shows response of Monomax to continuously applied force peaks.

EXTRA LONG DEGRADATION PROFILE⁴

Its special degradation profile sustains 50% of its original strength for more than 3 months.

Monomax provides excellent wound support during the healing process without the need of using a non-absorbable material.

- Strength recovery abdominal wall
 - Monomax degradation profile
- Polydioxanone degradation profile

Figure 3:

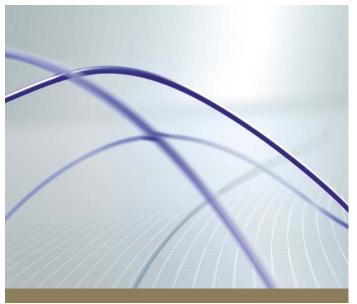
Abdominal wall strength recovery compared with Monomax and polydioxanone suture degradation profiles.

FLEXIBILITY

Its unique Shock–Z characteristics provide wound compliance and outstanding knot security, which makes Monomax both comfortable in use for the surgeon, and for the patient.

Figure 4:

Elongation of Monomax after applying pressure peaks (5–20 N) vs. time. The thread shows no deformation.



Monomax is clearly the answer for those plastic surgeons that no longer want to compromise!



McCoy Moretz, MD, FACS, President, F.A.C.E. of Beverly Hills

During my more than 23 years of clinical experience and working with thousands of patients, I have been frustrated by the compromise of not having one suture to provide all the excellent technical properties that are found in various suture materials.

My goal is to always produce the most outstanding cosmetic results. In the area of facial plastic surgery, there has been a long-standing controversy over the use of non-absorbable sutures, which provide added security and minimal tissue reactivity, versus. absorbable sutures which generally provide more comfort for the patient as well as less risk of granuloma, but which may experience tissue reactions and extrusion. There has always been the need to compromise one feature for another, until now!

Monomax combines the advantages of both types of sutures. Given it has the longest degradation profile available, Monomax provides the security to ensure the proper formation of collagen for long term tissue strength while at the same time being absorbed by hydrolysis when the material is no longer necessary.

In addition, the enhanced flexibility of Monomax helps me to easily maintain the natural vectors of facial pull and to achieve excellent aesthetic results that both my patients and I can immediately appreciate.

Monomax® 3/0

THE SURGEON'S CHOICE



Structure	Monofilament					
Chemical composition	Poly-4-hydroxybutyrate					
Colour	Violet					
Size	USP 3/0 (metric 2.5)					
Tensile strength retention	50% tensile strength retention at 90 days guaranteed					
Mass absorption	Essentially completed between 13 months and more than 36 months					
Indication	General soft tissue approximation, especially when the use of an absorbable monofilament suture with an extended wound support up to 15 weeks is indicated. I.e. abdominal wall closure					
Sterilization	Ethylene oxide (EO)					



References

- 1 Alexander JW, Solomkin JS, Edwards MJ. Updated Recommendations for Control of Surgical Site Infections. Annals of Surgery. 2011;253(6):1082-93.
- 2 Choi HJ, Chae HD. Comparison of E. coli infiltration between new absorbable sutures. J Korean Surg Soc. 2009;77(1):1-6.
- 3 Data on file: Test number PTR/22/0907/MAU according to standard EP SOP/02/FF/013.en.5 (KPTS) and to standard USP SOP/02/FF/014.en.3 (LPTS).
- 4 IFU Monomax

NEEDLE-THREAD COMBINATION Easyslide



Needle	Thread	USP (metric)								
length mm	length cm colour	5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (6)		
3/8 circle reverse cutting needle										
DS 19	45 Violet			B0041845						
DS 24	45 Violet			B0041855						
3/8 circle reverse cutting needle with precision point										
DSMP 19	45 Violet			B0041863						
DSMP 24	45 Violet			B0041879						
1/2 circle round bodied needle										
HR 17	70 Violet			B0041982						
HR 17s	70 Violet			B0041061						
HR 22	70 Violet			B0041053						
HR 22s	70 Violet			B0041010						
HR 26	70 Violet			B0041092						
HR 26s	70 Violet			B0041112						
HR 30	70 Violet			B0041153						
HR 37s	70 Violet			B0041348						

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AESCULAP® - a B. Braun brand

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