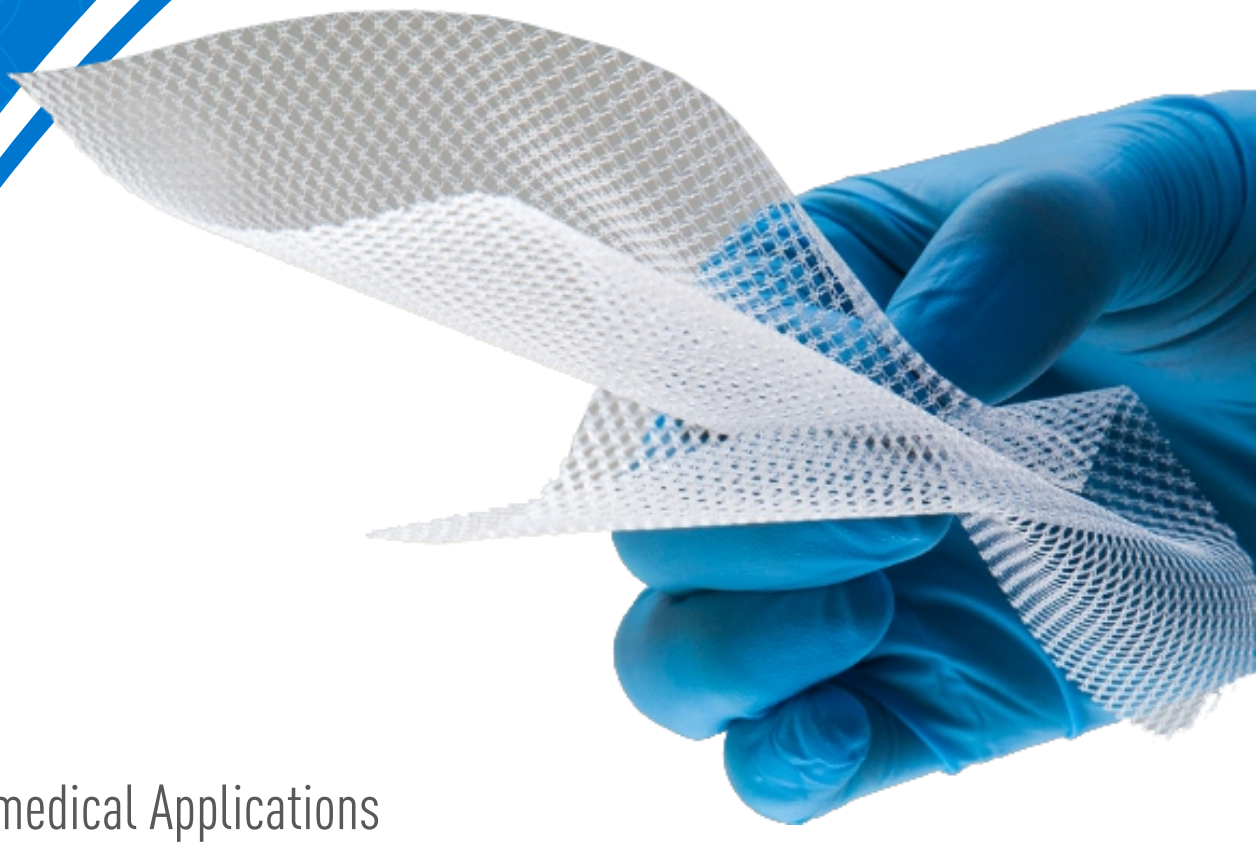
BRINGING LIFE to QUALITY

UNISUR
Lifecare Pvt. Ltd.

MONOFILAMENT POLYPROPYLENE MESH



For Biomedical Applications

ISO CE Certified

UNIVERSAL SUTURES

"HEALING BEYOND COMFORT"

UNISUR
Lifecare Pvt. Ltd.

Based in Bangalore, India we use highly sophisticated and advanced equipments for manufacturing and packing of polypropylene mesh. So in the process designed and operated by UNISUR LIFECARE PVT. LTD., highly professional and dedicated technical and non-technical manpower.

Established in the year 2011, we have made our mark in the domain of manufacturing, supplying and exporting of all kinds of sterile and non sterile surgical sutures and surgical mesh. Our products are a cut above the rest due to their non-reactive nature, cost-effectiveness and great strength.

We supply non-sterile polypropylene mesh in bulk to most of the Indian as well as International suture manufacturer as per requested length and width.

We have mesh in various thickness, knitting patterns and sizes.

We also have pre-shaped mesh, flower mesh and T-Sling mesh. We can manufacture any type and shape of polypropylene mesh as desired. We can even supply mesh in rolls with maximum width 32 cm and maximum length 25 meter.

Our polypropylene mesh are comprised of monofilament yarns designed for the manufacture of textile fabrics. Polymer and manufacturing process utilized to produce fabrics with properties well suited for the manufacture of medical devices .

Our main focus is in developing new types of knitted fabric to meet the interest, demands and trend factor in the biomedical field, so keep in touch side by side for our new offerings.

Welcome to
Unisur Lifecare Pvt. Ltd.

UNISUR
Lifecare Pvt. Ltd.

UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

UNILENE MESH – Non Absorbable Surgical Mesh

DESCRIPTION

UNILENE MESH is constructed of knitted filaments of extruded polypropylene identical in composition to that used in UNILENE Polypropylene Suture. This material, when used as a suture, has been reported to be nonreactive and to retain its strength indefinitely in clinical use.

UNILENE MESH is knitted by a process which interlinks each fiber junction and which provides for elasticity in both directions. This construction permits the mesh to be cut into any desired shape or size without unraveling. This bi-directional elastic property allows adaptation to various stresses encountered in the body

INTENDED USE

This mesh may be used for the repair of hernia and other facial deficiencies that require the addition of a reinforcing or bridging material to obtain the desired surgical result. UNILENE Mesh is a non absorbable mesh used to span and reinforce traumatic or surgical wounds to provide extended support during and following wound healing. The material is neither absorbed nor subjected to degradation or weakening by the action of tissue enzymes.

BEST USED IN: Polypropylene Mesh can be used for surgical procedures and hernia procedures, Urinary incontinence sling, Pelvic floor reconstruction, tissues carrier, vaginal prolapse suspension.

Additional Information:

Type	:	Regular Mesh - R1, R2, R3, R4, RS & R2BL Soft Mesh - U1, U2, U3, U4, UR & U1BL
Material	:	Monofilament Polypropylene (Undyed)
Absorption	:	Non absorbable
Shelf Life	:	5 Years
Product Characteristics	:	Light weight construction because of which less foreign mass in the body & flexible scar tissue. Macro porous for high visibility and colonization
Packaging	:	Double packed in Tyvek and Medical grade pouch for Sterilized Mesh Packed in polyethene bags for Non-Sterile Mesh ; Bulk Packing

NOTE :

- Polypropylene mesh fabrics cannot be gamma radiated.
- Use only an approved method for sterilization such as Ethylene oxide, steam autoclave.
- Mesh fabrics converted into finished medical devices must undergo final cleaning step so as customer approved process.
- ISO-10993 Biocompatibility reports are available to our Customers upon request.

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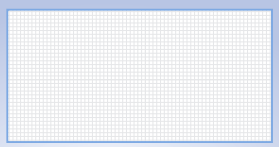
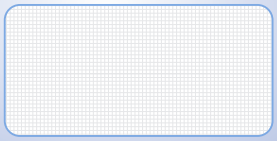
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

PRODUCT PARTICULARS		
SIZE	CODE	SHAPES
3 x 10 cm	RA310	 Rectangle
5 x 10 cm	RA510	
5 x 15 cm	RA515	
7.5 x 15 cm	RA715	
10 x 15 cm	RA1015	 Rectangle with Curved edge
26 x 36 cm	RA2636	
30 x 50 cm	RA3050	

SIZE	CODE	SHAPES
5 x 5 cm	SQ55	Square Square with Curved edge
7.5 x 7.5 cm	SQ88	
15 x 15 cm	SQ1515	
30 x 30 cm	SQ3030	
50 x 50 cm	SQ5050	

SIZE	CODE	SHAPES
4.5 x 10 cm	PC510	Pre-Cut
6 x 14 cm	PC614	

SIZE	CODE	SHAPES
90 x 95 mm	FLM9095	Plug Flower Mesh
80 x 85 mm	FLM8085	

UNISUR
Lifecare Pvt. Ltd.

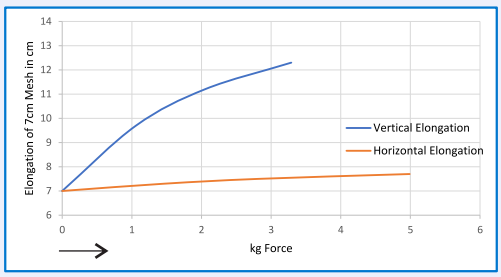
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

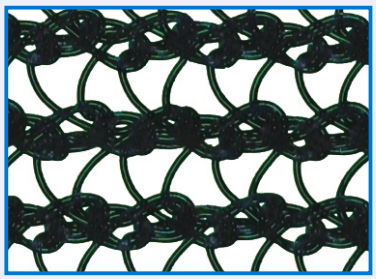
TECHNICAL SPECIFICATION OF MESH TYPE : R1

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	R1	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.15 mm	+/- 10%
Thickness	0.65 mm	+/-10%
Weight	120 GSM	+/- 10%
Burst Strength	10 kg/cm^2	Not less than the actual
Pore Size		
Horizontal	0.93 mm	+/- 10%
Vertical	0.65 mm	+/- 10%

ELONGATION CHART



KNITTING STRUCTURES



PICTURE NOT TO SCALE

Note	Any custom shapes and sizes available upon request

UNISUR
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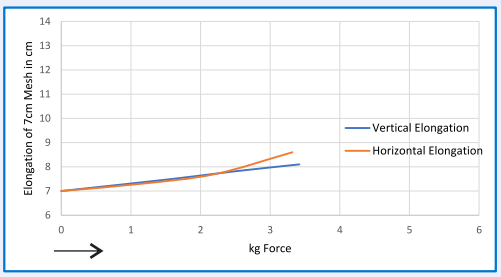
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : R2

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	R2	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.15mm	+/- 10%
Thickness	0.55 mm	+/-10%
Weight	90 GSM	+/- 10%
Burst Strength	9.5 kg/cm^2	Not less than the actual
Pore Size		
Horizontal	1.02 mm	+/- 10%
Vertical	0.77 mm	+/- 10%

ELONGATION CHART



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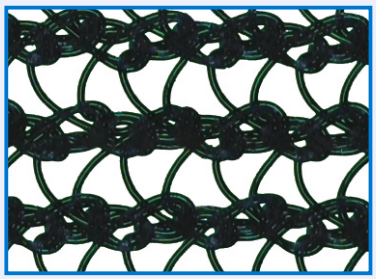

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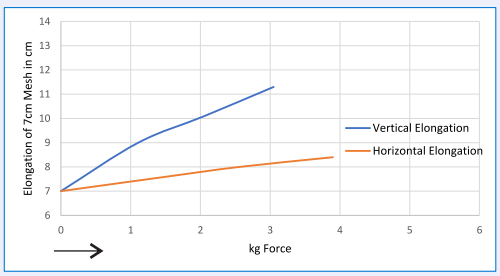
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : R3

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	R3	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.15 mm	+/- 10%
Thickness	0.55 mm	+/-10%
Weight	85 GSM	+/- 10%
Burst Strength	8 kg/cm^2	Not less than the actual
Pore Size		
Horizontal	0.98 mm	+/- 10%
Vertical	1.18 mm	+/- 10%

ELONGATION CHART



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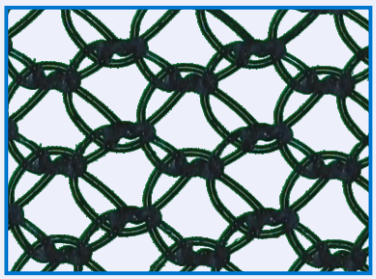

PICTURE NOT TO SCALE

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UNISUR
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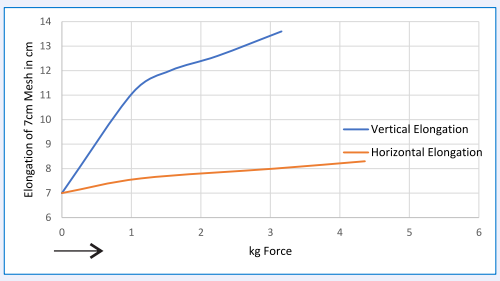
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : R4

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	R4	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.15 mm	+/- 10%
Thickness	0.55 mm	+/-10%
Weight	55 GSM	+/- 10%
Burst Strength	7 kg/cm^2	Not less than the actual
Pore Size		
Horizontal	1.31 mm	+/- 10%
Vertical	2.00 mm	+/- 10%

ELONGATION CHART



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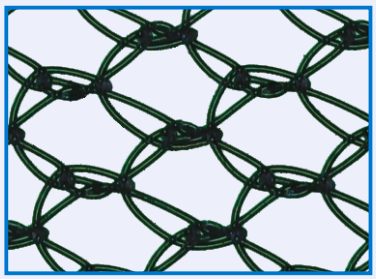

PICTURE NOT TO SCALE

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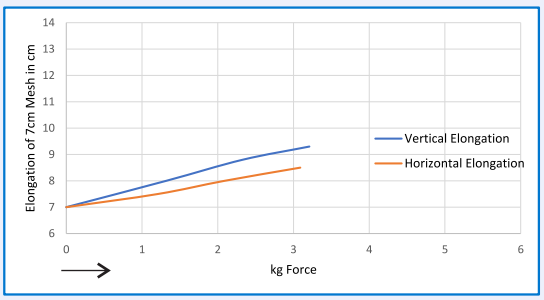
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : RS

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	RS	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.10 mm	+/- 10%
Thickness	0.46 mm	+/-10%
Weight	48 GSM	+/- 10%
Burst Strength	6.0 kg/cm^2	Not less than the actual
Pore Size		
Horizontal	1.31 mm	+/- 10%
Vertical	1.02 mm	+/- 10%

ELONGATION CHART



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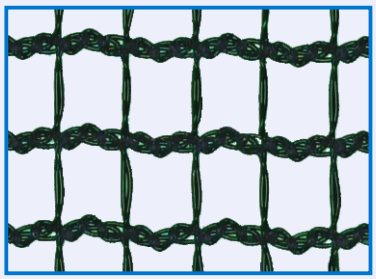

PICTURE NOT TO SCALE

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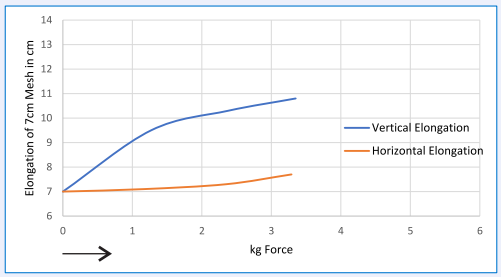
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : U1

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	U1	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.10 mm	+/- 10%
Thickness	0.45 mm	+/-10%
Weight	65 GSM	+/- 10%
Burst Strength	6kg/cm^2	Not less than the actual
Pore Size		
Horizontal	1.03 mm	+/- 10%
Vertical	0.56 mm	+/- 10%

ELONGATION CHART



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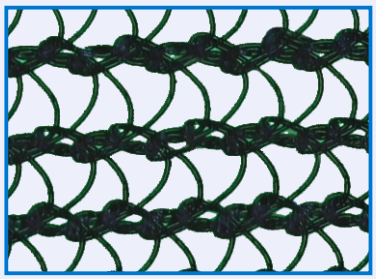

PICTURE NOT TO SCALE

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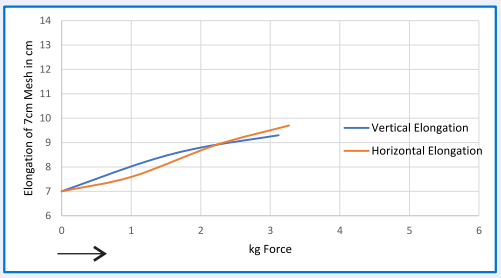
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : U2

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	U2	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.10 mm	+/- 10%
Thickness	0.35 mm	+/-10%
Weight	40 GSM	+/- 10%
Burst Strength	6kg/cm^2	Not less than the actual
Pore Size		
Horizontal	1.19 mm	+/- 10%
Vertical	0.59 mm	+/- 10%

ELONGATION CHART



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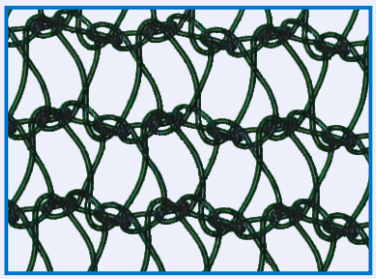

PICTURE NOT TO SCALE

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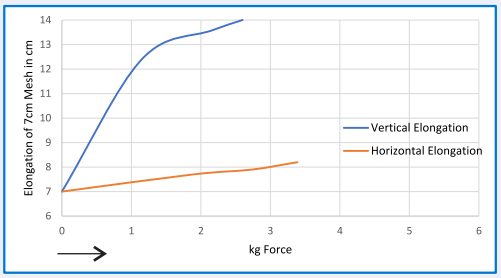
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : U3

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	U3	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.10 mm	+/- 10%
Thickness	0.46 mm	+/-10%
Weight	40 GSM	+/- 10%
Burst Strength	6kg/cm^2	Not less than the actual
Pore Size		
Horizontal	0.72 mm	+/- 10%
Vertical	1.49 mm	+/- 10%

ELONGATION CHART



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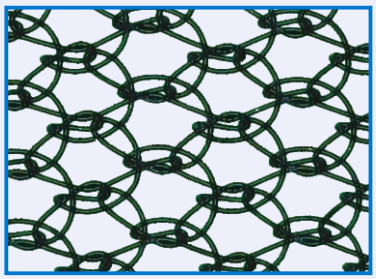

PICTURE NOT TO SCALE

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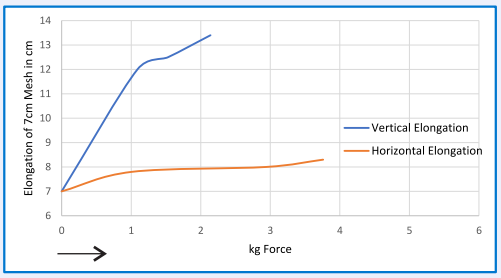
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : U4

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	U4	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.10 mm	+/- 10%
Thickness	0.39 mm	+/-10%
Weight	27 GSM	+/- 10%
Burst Strength	6kg/cm^2	Not less than the actual
Pore Size		
Horizontal	1.48 mm	+/- 10%
Vertical	2.41 mm	+/- 10%

ELONGATION CHART



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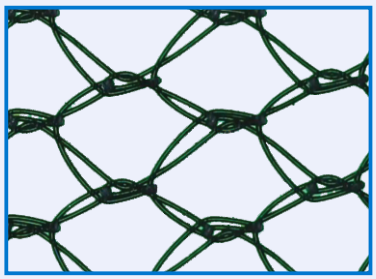

PICTURE NOT TO SCALE

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UNISUR
Lifecare Pvt. Ltd.

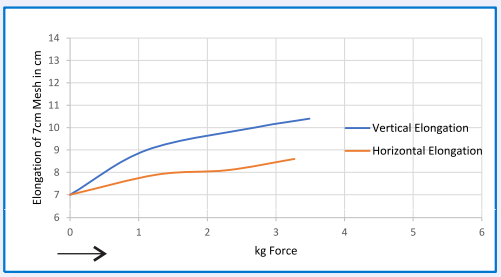
UNILENE MESH

Monofilament Polypropylene Mesh (Undyed)
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : UR

PRODUCT	MONOFILAMENT POLYPROPYLENE	
Type	UR	
Cutting Type	LASER	
Sterilization Type	Ethylene Oxide (EO)	
Sterility	Sterile / Non Sterile	
Colour	Clear - Undyed	
SPECIFICATION	**ACTUAL**	**TOLERANCE**
Filament Diameter	0.10 mm	+/- 10%
Thickness	0.42 mm	+/-10%
Weight	40 GSM	+/- 10%
Burst Strength	6kg/cm^2	Not less than the actual
Pore Size		
Horizontal	1.11 mm	+/- 10%
Vertical	0.52 mm	+/- 10%

ELONGATION CHART



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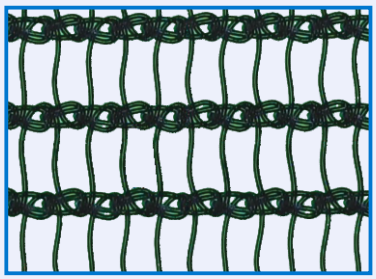


PICTURE NOT TO SCALE

Note	Any custom shapes and sizes available upon request

UNISUR
Lifecare Pvt. Ltd.

UNILENE MESH

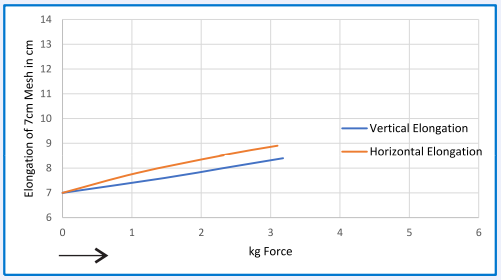
Monofilament Polypropylene Mesh Undyed
concatenated with Monofilament Polypropylene Blue
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : R2BL

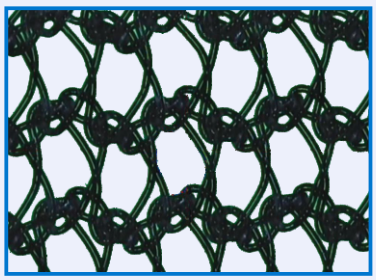
PRODUCT	MONOFILAMENT POLYPROPYLENE
Type	R2BL
Cutting Type	LASER
Sterilization Type	Ethylene Oxide (EO)
Sterility	Sterile / Non Sterile
Colour	Monofilament Polypropylene - Undyed
	Monofilament Polypropylene - Blue

SPECIFICATION	ACTUAL	TOLERANCE
Filament Diameter	0.15 mm	+/- 10%
Thickness	0.55 mm	+/-10%
Weight	90 GSM	+/- 10%
Burst Strength	9.5kg/cm^2	Not less than the actual
Pore Size		
Horizontal	1.11 mm	+/- 10%
Vertical	0.85 mm	+/- 10%
PP Blue Interval	12.5mm	+/- 10%

ELONGATION CHART



KNITTING STRUCTURES



PICTURE NOT TO SCALE

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UNISUR
Lifecare Pvt. Ltd.

UNILENE MESH

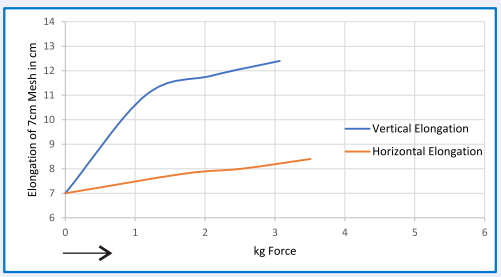
Monofilament Polypropylene Mesh Undyed
concatenated with Monofilament Polypropylene Blue
Non Absorbable Surgical Mesh

TECHNICAL SPECIFICATION OF MESH TYPE : U1BL

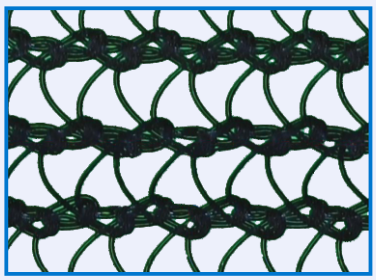
PRODUCT	MONOFILAMENT POLYPROPYLENE
Type	U1BL
Cutting Type	LASER
Sterilization Type	Ethylene Oxide (EO)
Sterility	Sterile / Non Sterile
Colour	Monofilament Polypropylene - Undyed
	Monofilament Polypropylene - Blue

SPECIFICATION	ACTUAL	TOLERANCE
Filament Diameter	0.10 mm	+/- 10%
Thickness	0.45 mm	+/-10%
Weight	65 GSM	+/- 10%
Burst Strength	5kg/cm^2	Not less than the actual
Pore Size		
Horizontal	0.97 mm	+/- 10%
Vertical	0.59 mm	+/- 10%
PP Blue Interval	11.5mm	+/- 10%

ELONGATION CHART



KNITTING STRUCTURES



PICTURE NOT TO SCALE

Note	Any custom shapes and sizes available upon request

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