



DOĞSAN

SURGICAL SUTURES

Product Guide



EP/USP Tensile Strength Table (minimum values)

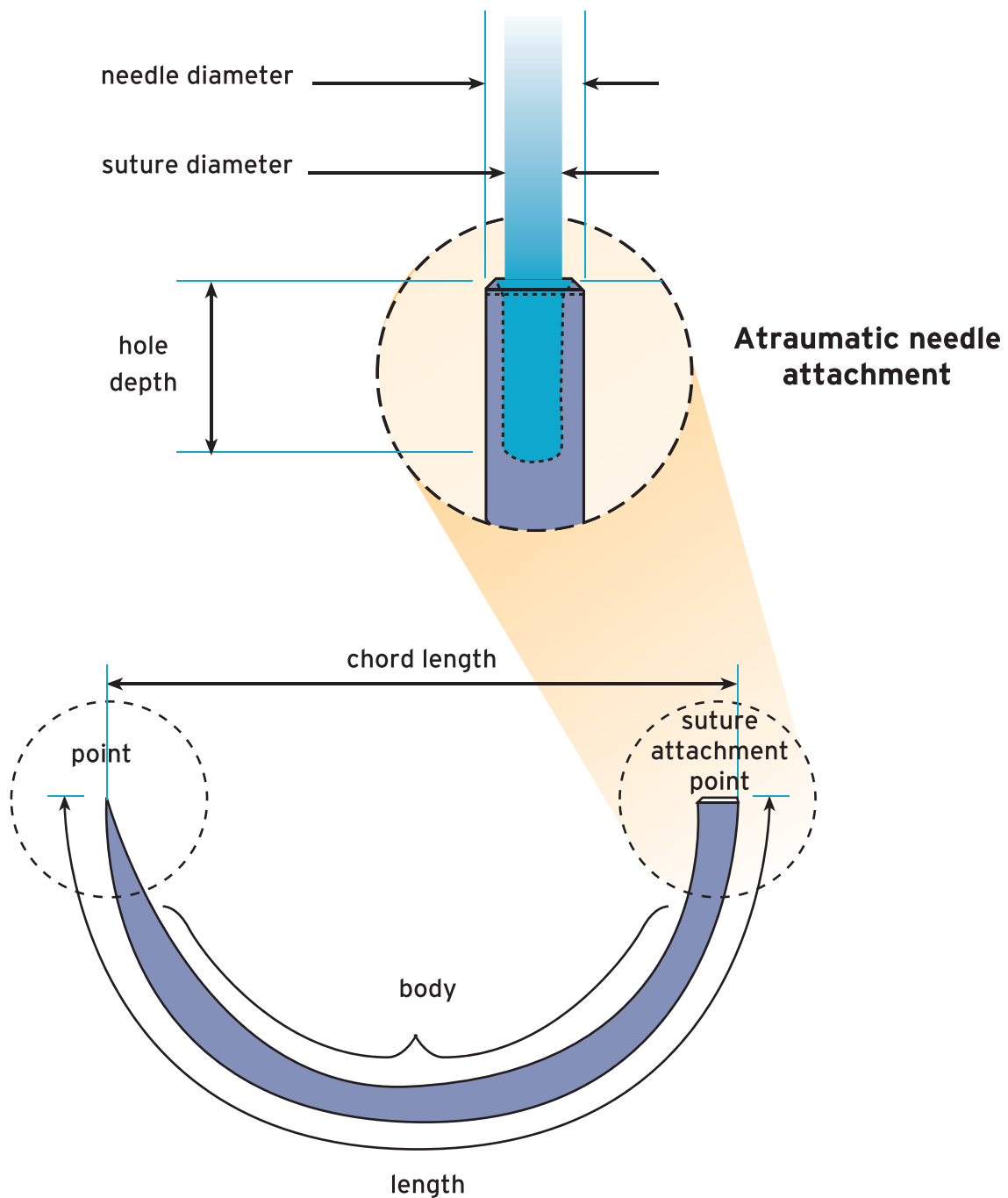
		NON-ABSORBABLE					SYNTHETIC ABSORBABLE			
		DIAMETER	TENSILE STRENGTH		STEEL WIRE		DIAMETER		TENSILE STRENGTH	
		(mm)	(kgf)		(kgf)		MONOFILAMENT	MULTIFILAMENT	(kgf)	
USP	metric	min-max	min	avarage	min	avarage	min-max (mm)	min-max (mm)	min	avarage
11/0	0.1	0.010 - 0.019	-	0.003			-	-	-	
10/0	0.2	0.020 - 0.029	-	0.010			-	-	-	
9/0	0.3	0.030 - 0.039	0.006	0.035			-	-	0.023	0.045
8/0	0.4	0.040 - 0.049	0.015	0.060			-	0.040 - 0.049	0.035	0.070
7/0	0.5	0.050 - 0.069	0.030	0.102			0.050 - 0.094	0.050 - 0.069	0.070	0.140
6/0	0.7	0.070 - 0.099	0.060	0.150			0.095 - 0.149	0.070 - 0.099	0.130	0.250
5/0	1	0.100 - 0.149	0.102	0.310			0.150 - 0.199	0.100 - 0.149	0.340	0.680
4/0	1.5	0.150 - 0.199	0.150	0.510			0.200 - 0.249	0.150 - 0.199	0.470	0.950
3/0	2	0.200 - 0.249	0.310	0.920			0.250 - 0.339	0.200 - 0.249	0.890	1.750
2/0	3	0.300 - 0.349	0.920	1.530			0.340 - 0.399	0.300 - 0.349	1.340	2.680
0	3.5	0.350 - 0.399	1.330	2.240			0.400 - 0.499	0.350 - 0.399	1.850	3.900
1	4	0.400 - 0.499	1.530	2.750			0.500 - 0.570	0.400 - 0.499	2.540	5.080
2	5	0.500 - 0.599	2.240	3.570	4.420	5.900	0.571 - 0.610	0.500 - 0.599	3.180	6.350
3 & 4	6	0.600 - 0.699	2.750	5.100	6.830	9.110	-	-	-	-
5	7	0.700 - 0.799	3.570	6.320	8.550	11.400	-	-	-	-
6	8	0.800 - 0.899	5.100	7.450	10.200	13.600	-	-	-	-
7	9	0.900 - 0.999	-	-	11.930	15.980	-	-	-	-
8	10	1.000 - 1.099	-	-	13.650	18.200	-	-	-	-

Adopted from EP and USP



Needles










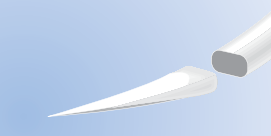





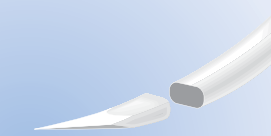













Structure of Atraumatic Needles



Needle Types According to Curvature



Atraumatic Surgical Needles

name	tip	body	symbol	description
round bodied				<ul style="list-style-type: none"> The most popular and classic needle type. Use in all soft tissue approximation including cardiovascular surgery.
cutting	inside 			<ul style="list-style-type: none"> Edges are specially sharpened for an easy and smooth penetration. Cutting edge is inside the needle. Used in skin closures and in all applications requiring cutting needles.
	outside 			<ul style="list-style-type: none"> Edges are specially sharpened for an easy and smooth penetration. Cutting edge is outside the needle. Widely used in skin closures and especially in plastic surgery.
PL				<ul style="list-style-type: none"> Special geometry for easy penetration and high resistance to bending with a slim body. Widely used in plastic and cosmetic surgery and skin closures.
KD				<ul style="list-style-type: none"> Specially designed for cardiovascular surgery for calcified vessels and tough fibrous tissues. The body is pressed to square shape to increase resistance to bending. Tip is specially sharpened for superior penetration.
diamond (taper cut)				<ul style="list-style-type: none"> For better penetration and less tissue trauma, tip of the needle is sharpened. Widely used in cardiovascular/thoracic, orthopedic, obstetrics/gynecologic surgery and repairs of tendons and fibrous tissues.
black				<ul style="list-style-type: none"> Used where better visibility and prevention of reflection of the needle is required (eg when blood concentration is high) .
				<ul style="list-style-type: none"> Darkening of the metal is made by surface oxidation technique. Widely used in cardiovascular surgery.
spatulated				<ul style="list-style-type: none"> Both side edges and upper surface are cutting while the body is flattened. Widely used in ophthalmic surgery.
blunt point				<ul style="list-style-type: none"> The tip of the needle sharpness of round bodied is reduced. Uses include repair of liver and sensitive friable tissues.



politer®

USP **2/0** metric 3 REF **R52502**
politer®

surgical suture/cerrahi iplik
braided/örgülü, non-absorbable,
non-capillary polyester, coated
EP, USP

yesil/green
90 cm

25 mm 1/2
yuvarlak-round

çift-double

doğsan

CE 0473
LOT 12345
2011-10
2016-10

Form No: F-09/37 Rev. No: 1



Description: Non-Absorbable, synthetic, braided, coated suture, made by braiding of fine polyester filaments, ideal for cardiovascular & implant surgery for very long term support

Characteristics: Very high tensile strength
Permanent support
Excellent knot security
Excellent handling
Providing maximum security under stress

Tensile strength: permanent, no known significant change in tensile strength retention in vivo.

Material : polyethylene terephthalate (polyester)














Coating: silicone based

Structure: Braided (multifilament)




Colour : Green / White

Sterilization: EO









Packaging: Available in USP 5/0 (metric 1) through USP 5 (metric 7) in boxes of 12 (one dozen) pouches.

needle information		needle diameter	colour	suture length	1	1.5	2	3
					5/0	4/0	3/0	2/0
8 mm								
1/4 spatulated, double		330 μ	white	45 cm	02882			
		330 μ	green	45 cm	R2882			
13 mm								
3/8 cutting		380 μ	green	45 cm	R233	R333		
3/8 round bodied, double		330 μ	green	75 cm	R2312			
		380 μ	green	75 cm		R3312		
16 mm								
1/2 round bodied			green	75 cm		R3160	R4160	
1/2 round bodied, double			green	90 cm		R31602	R41602	
3/8 cutting			green	75 cm		R3165	R4165	
17 mm								
1/2 round bodied, double			green	90 cm		R31702	R41702	R51702
1/2 round bodied, double	  With PTFE Pledget 6 x 3 mm		green	75 cm				R5170P
			white	75 cm				O5170P
1/2 diamond, double			green	90 cm	R21762	R31762	R41762	R51762
1/2 diamond, double	  With PTFE Pledget 6 x 3 mm		green	75 cm				R5176P
18 mm								
3/8 diamond, double			green	75 cm			R41862	

needle information	needle diameter	colour	suture length	1	1.5	2	3
				5/0	4/0	3/0	2/0

20 mm								
1/2 round bodied, double			green	90 cm		R32002	R42002	R52002
			green	75 cm		R31902	R41902	R51902
1/2 round bodied, double	  With PTFE Pledget 6 x 3 mm		green	75 cm				R5190P
			white	75 cm				05190P

needle information	colour	suture length	2	3	3.5	4	5
			3/0	2/0	0	1	2

25 mm								
1/2 round bodied		green	75 cm	R4250	R5250	R6250		
1/2 round bodied, double		green	75 cm	R42402	R52402			
		green	90 cm	R42502	R52502	R62502		
	  With PTFE Pledget 6 x 3 mm	green	75 cm		R5240P			
		white	75 cm		O5240P			
1/2 diamond, double		green	90cm	R42562	R52562			
		  With PTFE Pledget 6 x 3 mm	green	75cm		R5256P		
	white		75cm		O5256P			
3/8 cutting		green	75 cm	R4255	R5255			

30 mm								
1/2 round bodied		green	75 cm		R5300	R6300		
3/8 cutting		green	75 cm	R4303	R5303			



teknel®

USP **7** metric **9** REF **E1487**

teknel®

surgical suture/cerrahi iplik
nonabsorbable/emilmeyen
stainless steel wire/cerrahi çelik tel
monofilament

48 mm 1/2
diamond fixed head needle
sabit iğne

4x45 cm
12 Adet/pouches

CE 0473
LOT 12345
2011-10
2016-10

STERILE


doğsan

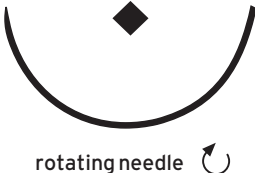

Form No: F-09/40 Rev. No:1




Description:	Non-absorbable stainless steel wire
Characteristics:	An ideal suture for sternotomy closure. Smooth surface and soft structure provides easy pass through tissues. Very high tensile strength and minimum tissue reaction.
Tensile strength:	Permanent
Material:	Monofilament
Structure:	316L
Colour:	Metallic grey
Sterilization:	EO
Packing:	Available in USP 2 (metric 5) - USP 8 (metric 10) in boxes of 12 (one dozen) pouches with rotating or fixed head needle alternatives

needle information	suture length	5	6	7	8	9
		2	3&4	5	6	7

45 mm						
1/2 taper cut	 fixed head needle	4 x 45 cm	E7457	E8457		
		2 x 45 cm	E7459			

48 mm							
1/2 taper cut		4 x 45 cm			E9486	E0486	E1486
		2 x 75 cm			E9488	E0488	E1488
		4 x 45 cm			E9487	E0487	E1487

55 mm						
1/2 cutting	 rotating needle ↻	2 x 75 cm			E9553	E0553
		4 x 45 cm			E9551	E0551

*Touching
the hearts for*
A HALF CENTURY



Surgical Sutures



Politer, made by braiding fine filaments of polyester and coated to reduce capillarity, is one of ideal suture for cardiovascular & implant surgery for long term support.

- Material** : Polyethylene terephthalate (polyester)
- Structure** : Braided
- Coating** : Silicone based
- Colour & USP Range** : Green / White 6/0 - 5
- Tensile Strength** : Permanent
- Sterilization** : EO
- Characteristics** : Excellent tensile strength, excellent knot security, secure knot positioning, excellent handling ideal suture for cardiovascular & implant surgery

Product Code	Product Specifications
R5150K	Politer 2/0 17 1/2 K-pak, round bodied (double)w/k-pledget,75 cm, green/white
R5160K	Politer 2/0 17 1/2 K-pak, round bodied (double)w/pledget,75 cm, green/white
R5170K	Politer 2/0 17 1/2 K-pak, round bodied (double)w/r-pledget 3x3,75 cm, green/white
R5200K	Politer 2/0 20 1/2 K-pak, round bodied (double)w/pledget,75 cm, green/white
R5240K	Politer 2/0 25 1/2 K-pak, round bodied (double)w/pledget,75 cm, green/white
R5250K	Politer 2/0 25 1/2 K-pak, round bodied (double)w/pledget,90 cm, green/white

50 years

Tektel®

Surgical Stainless Steel Wire



- 316L soft stainless steel for sternum closure
- 360° rotating and fixed head types
- Easy handling
- Cutting, diamond, trocar point needle types
- High needle attachment

Product Code	Product Specifications
E7459	Tektel 2 45 mm 1/2 diamond, fixed head (2x45cm)
E7457	Tektel 2 45 mm 1/2 diamond, fixed head (4x45cm)
E8457	Tektel 4 45 mm 1/2 diamond, fixed head (4x45cm)
E9488	Tektel 5 48 mm 1/2 diamond, rotating head (2x75cm)
E9486	Tektel 5 48 mm 1/2 diamond, rotating head (4x45cm)
E9487	Tektel 5 48 mm 1/2 diamond, fixed head (4x45cm)
E9553	Tektel 5 55 mm 1/2 cutting (▼), rotating head (2x75cm)
E9551	Tektel 5 55 mm 1/2 cutting (▼), rotating head (4x45cm)
E0486	Tektel 6 48 mm 1/2 diamond, rotating head (4x45cm)
E0487	Tektel 6 48 mm 1/2 diamond, fixed head (4x45cm)
E0553	Tektel 6 55 mm 1/2 cutting (▼), rotating head (2x75cm)
E0551	Tektel 6 55 mm 1/2 cutting (▼), rotating head (4x45cm)
E0554	Tektel 6 55 mm 1/2 cutting (▼), fixed head (4x45cm)
E1486	Tektel 7 48 mm 1/2 diamond, rotating head (4x45cm)
E1487	Tektel 7 48 mm 1/2 diamond, fixed head (4x45cm)
E1553	Tektel 7 55 mm 1/2 cutting (▼), rotating head (2x75cm)
E1551	Tektel 7 55 mm 1/2 cutting (▼), rotating head (4x45cm)

Touching the hearts!

Dopace®

Temporary Pacing Wire (TPW)



TEMPORARY PACING WIRE, twisted 316L stainless steel wire, with polyethylene (PE) coated (sheathed) with double needle, with or without anchor.

DOPACE is indicated for use as temporary cardiac pacing wire to transfer electrical energy along its length between the external pacemaker and the patient's heart for temporary cardiac pacing and intracardiac ECG monitoring during and after open-heart surgery, for single use only.

DOPACE, TPW are available as multifilament sheathed in metric 3.0 (USP 2/0) gauge size, in a variety of lengths (mostly 60 cm), with anchor or without, with permanently attached needles

Product Code	Product Specifications
E5601W	Dopace 2/0 60 str. cutting (▼), breakaway needle, w/anchor, 17 mm 1/2 round, 60 cm
E5603W	Dopace 2/0 60 str. cutting (▼), breakaway needle, w/anchor, 25 mm 1/2 round, 60 cm
E5903W	Dopace 2/0 90 str. cutting (▼), breakaway needle, w/anchor, 22 mm 3/8 round, 60 cm
E5613W	Dopace 2/0 60 str. cutting (▼), breakaway needle, 25 mm 1/2 round, 60 cm
E5913W	Dopace 2/0 90 str. cutting (▼), breakaway needle, 22 mm 3/8 round, 60 cm