





EC Certificate

Production Quality Assurance System according to Medical Devices Directive 93/42/EEC Annex-V

Certificate Number: 1984-MDD-18-479

We hereby declare that an examination has been carried out following the requirements of the national legislation to which the undersigned is subject, transposing Annex-V of the Directive 93/42/EEC on medical devices. We certify that the production quality system conforms with the relevant provisions of the aforementioned legislation.

Organization:

BAYTEKS TEKNIK TEKSTIL SANAYİ VE TİCARET ANONİM ŞİRKETİ

Organize Sanayi Bölgesi 19 nolu Cad. No:9 Merkez / Kilis - Turkey

Products: Sterile Disposable Surgical Gown, Sterile Disposable Surgical Drapes, Sterile Disposable Surgical Packs

The certificate is valid till expiration date, subject to successful completion of periodical surveillance audits. Please contact Kiwa for details.

Report Number:

M.5035.03

Date of first issue: 12 January 2018

Date of last issue:

16 September 2020

Revision Number:

03

Expiry Date:

27 May 2024

Kiwa Belgelendirme Hizmetleri A.Ş. has audited the quality system restricted to the aspects of manufacture concerned with securing and maintaining sterile conditions in accordance with MDD Annex V and found that the quality system meets the applicable requirements in MDD Annex V.

Kiwa Belgelendirme Hizmetleri A.Ş. is Notified Body under Council Directive 93/42/EEC concerning medical devices with identification number: 1984

16 September 2020, Istanbul, Turkey

Muhteşem Gökhan Yücel Head of Notified Body







BAYTEKS TEKNİK TEKSTİL SANAYİ VE TİCARET A.Ş.

ORGANIZE SANAYI BÖLGESİ 19 NOLU CAD. NO: 11 MERKEZ - KİLİS - TÜRKİYE

TEK KULLANIMLIK STERİL VE NON-STERİL CERRAHİ ÖNLÜKLERİ, ÖRTÜLERİ VE SET ÜRETİMİ, DEPOLAMASI, DAĞITIMI VE SATIŞI

kapsamında

EN ISO 13485:2016

Uluslararası Tıbbi Cihazlar Kalite Yönetim Sistemi Standardına uygun bir yönetim sistemi kurmuştur.

"Standardın aşağıda verilen maddeleri hariç tutulmuştur"
"7.5.3" "7.5.4" "7.5.9.2"

Sertifika No

: M 10892

İlk Belgelendirme Tarihi

: 12 Ocak 2018

Sertifika Tarihi

: 01 Şubat 2021

Son Geçerlilik Tarihi

: 31 Ocak 2024

Kiwa Belgelendirme Hizmetleri A.Ş. İTOSB 9. Cadde No: 15 Tepeören Tuzla

İstanbul / Türkiye

Tel: +90 216 593 25 75 Faks: +90 216 593 25 74

info@kiwa.com.tr www.kiwa.com.tr

Sertifikalar periyodik ara denetimlerin başarılı ile tamamlanması kaydıyla geçerlidir. Detaylı bilgi için yukarıdaki numaralara başvurulabilir. ually

Genel Müdür













BAYTEKS TEKNİK TEKSTİL SANAYİ VE TİCARET A.Ş.

ORGANIZE SANAYI BÖLGESI 19 NOLU CAD. NO: 11 MERKEZ - KİLİS - TURKEY

PRODUCTION, STORAGE, DISTRIBUTION AND SALES OF DISPOSABLE STERILE AND NON STERILE SURGICAL GOWNS, DRAPES AND SETS

with a scope of

EN ISO 13485:2016

Has established a management system in accordance with international Medical Devices Quality Management System Standard

"Following elements of the standard are excluded"
"7.5.3" "7.5.4" "7.5.9.2"

Certificate No

: M 10892

Initial Certification Date

: 12 January 2018

Certification Date

:01 February 2021

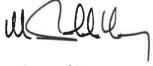
Expiration Date

: 31 January 2024

Kiwa Belgelendirme Hizmetleri A.Ş. ITOSB 9. Cadde No. 15 Tepeören Tuzla Istanbul / Turkey

Tel: +90 216 593 25 75 Faks: +90 216 593 25 74 info@kiwa.com.tr www.kiwa.com.tr

Certificate is valid till expiration date, subject to successful completion of periodical surveillance audits. Please contact above numbers for detailed information.



General Manager







Certificate

Standard | ISO 9001:2015

Certificate Registr. No. 01 100 1317789

Certificate Holder:



BAYTEKS TEKNÍK TEKSTÍL SAN. VE TÍC. A.Ş. ORGANÍZE SANAYÍ BÖLGESÍ 19 NO'LU CAD. NO:9 79000 MERKEZ – KÍLÍS / TURKEY

Scope: Design, production, processing and sales of non-woven

surface fabric

Proof has been furnished by means of an audit that the

requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2020-03-18 until 2023-03-17.

First certification 2014

2020-01-23

TÜV Rheinland Cert GmbH Am Grauen Stein · 51105 Köln









TÜRK STANDARDLARI ENSTİTÜSÜ

TÜRK STANDARDLARINA UYGUNLUK BELGESİ

TURKISH STANDARDS INSTITUTION

CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS



BELGE NUMARASI

REFERENCE NUMBER OF LICENCE

BELGENIN ILK VERILIS TARIHI DATE OF FIRST ISSUE OF LICENCE

BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL

BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER

BELGE SAHİBİ KURULUŞUN ADRESİ ADRESS OF THE LICENCE HOLDER

ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE

ÜRETİM YERİ ADRESİ ADRESS OF THE MANUFACTURING PLACE

IPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)

TESCILLI TİCARİ MARKASI REGISTERED TRADE MARK

ILGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD

BELGE KAPSAMI SCOPE OF LICENCE 030701-TSE-01/04

08.09.2015

08 09 2022

BAYTEKS TEKNİK TEKSTİL SANAYİ VE TİCARET ANONİM SIRKETI

ORGANIZE SANAYI BÖLGESİ MAH. 19 NOLU CAD. NO:9 /9 MERKEZ KİLİS/TÜRKİYE

BAYTEKS TEKNİK TEKSTİL SANAYİ VE TİCARET ANONİM ŞİRKETİ

ORGANIZE SAN. BÖL. 19 NOLU CAD.NO:9 KILIS / TÜRKİYE

030701-TSE-01/03

BAYMED

TS EN 13795-1 / 30.09.2019

Cerrahi önlükler, standard performans, tek kullanımlık Cerrahi örtüler, standard performans, tek kullanımlık

e-imzalı/e-signed

31.08.2021

Belgelendirme Merkezi Başkanı Adına RIZA BUĞRA ALP GİRAY OKUMUŞ

GAZİANTEP BELGELENDİRME MÜDÜRÜ

^{*}TSE BELGELENDIRME MERKEZ BAŞKANLIĞI ; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr



Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE GAZİANTEP BELGELENDİRME MÜDÜRLÜĞÜ * Adres: 2.Organize Sanayi Bölgesi Hacı Sani Konukoğlu Bulvarı No:9 Başpınar 27120 Şehitkamil GAZİANTEP * Telefon: 0 342 337
95 03 (Pbx)* Faks: 0 342 337 95 08





AB-0494-T

MT20210576

04-21

TÜBİTAK BURSA TEST AND ANALYSIS LABORATORY

Page 1 / 2

TEST REPORT

Customer Name/Address :TÜRK STANDARTLARI ENSTİTÜSÜ GAZİANTEP BELGELENDİRME

MÜDÜRLÜĞÜ / 2. Organize Sanayi Bölgesi Haci Sani Konukkoğlu Bulvarı No

9 / Başpınar / GAZİANTEP

T/F:(342) 337-95-03//(342) 337-95-08

Order Date/No: 24/02/2021 Tarihli ve 2137871 Sayılı Yazı

Sample Description: Inspection Number:2137871 2 m2 Surgical Gown Fabric (Bayteks Tekstil) **Sample Receipt Date**:12/04/2021 **Sample Delivered by**: Cargo Delivery

Number of Pages: 2

Remarks: Sampling and identification of the sample was done by the customer. By the request of the customer, Turkish version of the same date and numbered report was also created.

- *TÜBİTAK Bursa Test and Analysis Laboratory accredited by TÜRKAK under registration number AB-0494-T for General Requirements for the Competence of Testing and Calibration Laboratories TS EN ISO/IEC 17025 as test laboratory.
- *Test results,methods measurement uncertainty (if applicable, given in 95% confidence interval) and other information are given on the following pages which are part of this report.
- *This report and results can not be used for the purpose of advertising by the requesting client.
- *This report has been given as a full content and can not be copied by sections. This report can not be reproduced without prior written approval of TÜBİTAK BUTAL
- *In case the information provided by the customer, TÜBİTAK BUTAL will not be responsible for this information.
- *In case of sampling by customer the results in this report refer only to samples tested
- *In case of sampling by customer, the sampling uncertainty were not included to the uncertainty budget.
- *Test marked with (A) refers the test within the scope of TS EN ISO / IEC 17025 accreditation and marked with (D) refers the test provided by external sources
- *Testing reports without e-signature are not valid.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and tothe International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

Date 14/04/2021

e-signature
Anıl ÇETİNOĞLU
Person in Charge of Laboratories

e-signature

Sedat AKTAŞ Director

This document has been signed by e-signature.

The document can be verified via the link " https://butalonlinetest.tubitak.gov.tr/butalOnline " using the code "NW33423789'03B"



AB-0494-T

MT20210576

04-21

Page 2 / 2

Test Date : 12- 14/ 04/ 2021

Sample Description : Inspection Number:2137871 2 m2 Surgical Gown Fabric (Bayteks Tekstil)

Test Name and Test Method	Test Result				
		Dry Sa	mple_	Wet Sa	mple
Bursting Strength	Bursting Strength	146	kPa	137	kPa
(A) EN ISO 13938-1	CV(%)	% 5,1		% 7,3	
	Bursting Height	14	mm	14	mm
	CV(%)	% 1,4		% 2,9	
	Bursting Time	19,7	S	19,9	S
	CV(%)	% 3,2		% 3,2	
	CV(%)	% 3,2		% 3,2	

Test Conditions

a) Version of applied standard: EN ISO 13938-1: 2019

b) Applied method: Hydraulic Diaphragm Method

c) Test Device: SDL Autoburst

d) Test Diameter: 30,5 mm, Test Area: 7,3 cm²

e) Number of Test specimen: 5

f) Test conditions according to ISO 139 (20±2°C, %65±4 Relative Humidity)

Note

Before wet tests, the test pieces were immersed in 1 liter distilled water for one hour.



DATE	19.03.2021
DOC.NO	F32
PAGE NO	1
REV.NO	0

TECHNICAL DATA SHEET

Product : Polypropylene

Product Description : ENDLESS FILAMENTS MELTBLOWN, THERMALLY BONDED.

Raw Material : 100 % PP

Application on Fabric : SMS/HYDROPHOBIC

Treatment :

Fabric Colour : MEDICAL BLUE

Customer Name

Weight :43 GSM

Width :

Packing : PE BAG WITH LABEL

± 15 %

± 15 %

± 20 % ± 5 H₂O/cm²

Elongation Hydrostatic Head

Absorption

Air Permeability

- nenning			1	
PROPERTIES		TEST METHOD	UNIT	TARGET
WEIGHT		NWSP 130.1.R0 (15)	gsm	43
THICKNESS		NWSP 120.1.R0 (15)	mm	0,33
TENSILE STRENGTH	MD CD	NWSP 110.4.R0 (15)	N/5 cm	115,0 55,0
ELONGATION AT BREAK	MD CD	NWSP 110.4.R0 (15)	%	145,0
HYDROSTATIC HEAD		NWSP 080.6.R0(15)	mm	430,0
AIR PERMEABILITY		NWSP 070.1.R0 (15)	I/m²/s(200 pa)	
ABSORPTION	WATER	NWSP 010.4.R0 (15)	H ₂ O/cm ²	150,0
Tolerances For The Ava	rage Results			
Weight	± 5 %	Roll Tolerance		
Thickness Tensile Strenght	± 10 % ± 15 %	Length: -0/+5% against target/o	rdered lenght	

Splice: Maxium five splices per roll

TEKNIKTEKSTH, SAN, ve TIC, A.S.

Merkez: Baspinar (Granize) DSB Mah O S.B. /2 BOTGN
B3207 Nolu Cad. No.2.

Sentkhami (GAZIAMTE)
Fabrika: Org. Sah. Böl. 19 Nolu Cadde No.9 Terkez/Jink. SMrsis No. 0159 00037 499 001)7 Tic Syl Nol. 3435/
Gazikent (Jerg) Bajisas Herginas 1999-32749

years he

Width: Up to 150 cm in width = -0mm/+5mm Over 150 cm in width = -0mm/+10



Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE

21001832

01-21

TEST REPORT
DENEY RAPORU

Customer name:

BAYTEKS TEKNİK TEKSTİL SAN. TİC. AŞ.

Address:

ORGANİZE SANAYİ BÖLGESİ 19 NO'LU CADDE NO:11

MERKEZ/KİLİS

Buyer name:

Contact Person:

KADİR KARAGÜN

Order No:

REF:SG-01222-05/LOT:50815

Article No:

PROTECTED SURGICAL GOWN

Name and identity of test item:

Blue non-woven gown. (Claimed to be; MEDICAL BLUE)

The date of receipt of test item:

18.01.2021

Re-submitted/re-confirmation

date:

Date of test:

18.01.2021-25.01.2021

Remarks:

Sampling:

The results given in this report belong to the received sample by vendor.

End-Use:

Care Label:

Not Specified

Number of pages of the report:

3



Date 25.01.2021

Customer Representative Yeşim ŞAHİN Head of Testing Laboratory
Sevim A. RAZAK

25.01.2021

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21001832

REQUIRED TESTS	RESULT	COMMENTS
PHYSICAL PROPERTIES TESTS		
Lint and Other Particles Generation From	P	
Nonwoven		
D D	1	

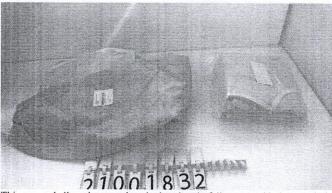
P: Pass

F: Fail

R: Refer to retailer technologist.

Test results were evaluated according to EN 13795-1:2019 Standard Performance Properties Critical Sample Group limit values (Table 1)

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. If requested, measurement uncertainty will be reported. But unless otherwise specified, measurement uncertainty is not considered while stating compliance with specification or limit values. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. The declaration of conformity was given in accordance with the Simple Acceptance Decision Rule. Tests marked (*) in this report are not included in the accreditation schedule.



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n.f136-2/03

EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş.

21001832

TEST RESULTS

LINT AND OTHER PARTICLES GENERATION FROM NONWOWEN;

Test Metod: ISO 9073-10: 2003 (*)

5 test samples that in cross direction are maintained to twisting and compression action with Gelbo Flex for inner and outer surface in a clean room condition (according to ISO 14644-1 Class 5).

Lint and particles detached from the sample are counted with counter device and classified to size range.

Min. measuring size of SOLAIR 3100 particles measuring device: 0,3 μm,

Max. measuring size of SOLAIR 3100 particles measuring device: 25 μm,

Air flow: 28.3 ± 1.4 L/min

Working mode: 30 s x 10 consecutive periods

SAMPLE, INNER SURFACE Total linting : 23 Standard deviation : 4 Coefficient of variation : 189 Coefficient of linting (CL): 1		SAMPLE, OUTER SUR Total linting Standard deviation Coefficient of variation Coefficient of linting (CL)	: 16 : 7 : 46%
	SAMPLE,	MATERIAL (TOTAL)	
Total linting	:39		
Coefficient of linting (CL)*	:2		

^{*}According to EN ISO EN ISO 13795-1:2019, Coefficient of linting (CL) (log 10) should be \leq 4 for analysis of critical product area and less critical product area of both standard performance and high performance testing.



Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE



AB-0583-T

20035727 -ing

10-20

EKOTEKS

TEST REPORT DENEY RAPORU

Customer name: BAYTEKS TEKNİK TEKSTİL SAN. VE TİC. A.Ş

Address: -

Buyer name: ORGANİZE SAN. MAH. 19 NOLU CAD. NO:11 MERKEZ /KİLİS

Contact Person: KADİR KARAGÜN

Order No: REF:SG-01222-05 LOT:50815

Article No: PROTECTED SURGICAL APRON Name and identity of test item: Coated medical blue surgical gown.

The date of receipt of test item: 29.09.2020

Re-submitted/re-confirmation

date:

Date of test: 29.09.2020-12.10.2020

Remarks:

Sampling: The results given in this report belong to the received sample by vendor.

End-Use:

Care Label: Not specified.

Number of pages of the report: 7

The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.

EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş. accredited by TÜRKAK under registration number [AB-0583-T] for ISO 17025:2017 as test laboratory.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Seal Date Customer Representative Head of Testing Laboratory
12.10.2020 Hatice ACARALP Sevim A. RAZAK
12.10.2020

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AB-0583-T 20035727 -ing 10-20

REQUIRED TESTS	RESULT	COMMENTS
PHYSICAL PROPERTIES		
Tensile Strength / Dry	P	
Tensile Strength / Wet	P	
Bursting Strength / Dry	P	
Bursting Strength / Wet	P	
Water Permeability	P	
MICROBIOLOGICAL TESTS		
Microbial Cleanliness (Bioburden)	P	
Wet-Bacterial Penetration	P	
Dry-Bacterial Penetration	P	

P: Pass

F: Fail

R: Refer to retailer technologist.

⁽¹⁾Test results were evaluated according to EN 13795-1:2019 Standard Performance Properties Critical Sample Group limit values (Table 1)

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. If requested, measurement uncertainty will be reported. But unless otherwise specified, measurement uncertainty is not considered while stating compliance with specification or limit values The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. Tests marked (*) in this report are not included in the accreditation schedule.



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AB-0583-T

20035727 -ing

10-20

TEST RESULTS

TENSILE STRENGTH; EN 29073-3:1996

Instron 5969 (Load: 50 kN), Strip Method. Speed: 100 mm/min±10, Gauge length 200 mm. Pre-load was not applied. Without wetting samples.

The average results are given for weft and warp direction of five samples

Performed in the conditioned room (20±2°C-65%±4).

Dry;

	RESULT	<u>REQUIREMENT</u>
Weft	72.5 N	≥ 20N (Dry)
Warp	162.8 N	$\geq 20N (Dry)$

TENSILE STRENGTH; EN 29073-3:1996

Instron 5969 (Load: 50 kN), Strip Method. Speed: 100 mm/min±10, Gauge length 200 mm. Pre-load was not applied. With wetting samples.

The average results are given for weft and warp direction of five samples

Performed in the conditioned room (20±2°C-65%±4).

Wet;

,,,,,	<u>RESULT</u>	REQUIREMENT
Weft	75.1 N	≥ 20N (Wet)
Warp	160.1 N	$\geq 20N$ (Wet)

BURSTING STRENGTH;; ISO 13938-1:1999

SDL ATLAS M229 tester. Test area: 30.5 mm diameter Rate of increase in volume; 29 cm³/min. The average results are given of five samples.

Performed in the conditioned room (20±2°C-65%±4).

RESULTREQUIREMENTDry;201.4 kPa $\geq 40 \text{ kPa (Dry)}$

_ 10 11 (21)

Height at Burst* 14.9 mm

AB-0583-T 20035727 -ing 10-20

TEST RESULTS

TEST METHOD: EN 13795-1: 2019

SURGICAL CLOTHING AND DRAPES -REQUIREMENTS AND TEST METHODS

ANNEX 1: SURGICAL CLOTHING AND DRAPES;

BURSTING STRENGTH; ISO 13938-1:1999

SDL ATLAS M229 tester. Test area: 30.5 mm diameter Rate of increase in volume; 45.2 cm 3 /min. The average results are given of five samples. Performed in the conditioned room (20±2°C-65%±4).

Wet; $\frac{\text{RESULT}}{190.2 \text{ kPa}}$ $\frac{\text{REQUIREMENT}}{\geq 40 \text{ kPa (Wet)}}$

Height at Burst* 13.8 mm

WATER PERMEABILITY; ISO 811:2018

Hydrostatic Head Tester, Textest marka Fx 3000 model Temperature of water 20°C. Pressure increase ratio 10 mbar/min. Performed in the conditioned room (20±2°C-65%±4)

	RESULT	REQUIREMENT
Sample 1	147.0 cmSS	≥ 100cmSS
Sample 2	150.0 cmSS	
Sample 3	157.2 cmSS	
Sample 4	163.3 cmSS	
Sample 5	160.1 cmSS	
Average	158.6 cmSS	

AB-0583-T 20035727 -ing 10-20

TEST RESULTS

TEST METHOD: EN 13795-1:2019

SURGICAL CLOTHING AND DRAPES -REQUIREMENTS AND TEST METHODS

ANNEX 1: SURGICAL CLOTHING AND DRAPES (*);

MICROBIAL CLEANLINESS (Bioburden)

Test Metod: Ref: EN ISO 11737-1:2018 (*)

The sample is put in extraciton liquid after shaking well, inoculated on the agar. After incubation at 30 ± 1 ° C for 72 hours, growth microorganisms are counted on the agar.

	<u>RESULTS</u>	REQUIREMENT
Microbial cleanliness (cfu/g)	32 cfu/g	≤300 cfu/g Type I and Type II mask

AB-0583-T
20035727 -ing
10-20

TEST RESULT

Test Method: BS EN 22610: 2006 (Surgical drapes, garments and fresh air clothes used as medical devices for patients, hospital staff and equipment - Test method for determination of resistance to wet bacterial permeability) (*)

A test sample is placed on the agar plate on a rotating disc. Bacteria carrier material and coating film are placed on the test sample and all parts are fixed on the disk. A finger is placed on the test sample to apply a certain force ($3N \pm 0.02$). The finger moves on the test sample over the entire surface of the agar within 15 minutes. 5 studies are carried out for 15 minutes. 6. The study is repeated by inverting the sample.

Sample amount:	5 pieces 25x25cm2
Carrier Material:	30 μm thin, 25x25cm2 Polyurethane Film
Coating Material:	25x25cm2 HDPE Film
Microorganism:	Staphylococcus aureus ATCC 29213
Bacterial Concentration (kob / ml):	2x104 kob / ml
Incubation Conditions:	(36 ± 1) ° C 48 hours

	RESU	LTS	
Number of Populating	Bacteria (cfu)	Penetrati	on Rate
X ₁	0	R _{CUM1}	0
X ₂	0	R _{CUM2}	0
X ₃	0	R _{CUM3}	0
X ₄	0	R _{CUM4}	0
X ₅	0	R _{CUM5}	0
Z	459		
Т		459	

X1 X5: Number of colonies growing in 5 parallel petri in the same sample

Z: number of colonies growing in the sixth petri dish

 $T: X_1 + X_2 + X_3 + X_4 + X_5 + Z$

 $R_{CUM1} = X1/T$

 $R_{CUM2} = (X2 + X1)/T$

 $R_{CUM3} = (X3 + X2 + X1)/T$

 $R_{CUM4} = (X4 + X3 + X2 + X1)/T$

 $R_{CUM5} = (X5 + X4 + X3 + X2 + X1)/T$

	BARRIER INDEX (I _B)		
	Result Expected value		
I B	6	≥2,8	

 $I_B = 6 - (CUM1 + CUM2 + CUM3 + CUM4 + CUM5)$

^{*} EN 13795-1:2019 Surgical gowns and drapes - Requirements and test methods are evaluated according to Table-1.

AB-0583-T 20035727 -ing 10-20

Test Method: ISO 22612: 2005 (Clothing for protection against infectious agents - Test method for resistance to dry microbial penetration)

Samples and containers are sterilized. Agar plates are placed in each container. Samples are placed aseptically in the apparatus. The covers are closed. After making a pot in the sample with the piston, the pistons are removed and $0.5~g\pm0.1~g$ are added to five samples from the powder contaminated with bacteria and the six to the non-contaminated powder. Then all openings are closed with a plastic bag. The device is operated to give 20,800 vibrations per minute. The test time is 30 minutes. After the test is over, all agar plates are incubated at 35 $^{\circ}$ C for 24 hours.

Sample amount:	6 pieces 20x20 cm ²		
Mikroorganism:	Bacillus subtilis ATC	CC 9372	
Bacterial concentration (cfu/ml):	1x10 ⁸		
Incubation conditions:	35°C / 24 hours		
	RESULTS		
Number	of Populationg Bacte	eria (cfu)	
1		1	
2		2	
3		1	
4		3	
5		2	
6 (Control)		0	
Total		9	
Logarithm		0.95	
* EN 13795-1:2019 Surgical gowns and dra	apes - Requirements and	d test methods are evaluated according to	
Table-1.			
	RESULT		
Result (cfu/g)	Expected Value	
9 kob	/gr	≤300kob/gr	



Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE



TEST REPORT DENEY RAPORU

AB-0583-T 21012425ing 04-21

Customer name:

BAYTEKS TEKNİK TEKSTİL SAN. VE TİC. AŞ.

Address:

ORGANİZE SANAYİ BÖLG.19 NO'LU CAD.NO:11 MERKEZ/KİLİS

Buyer name:

Contact Person:

KADİR KARAGÜN

Order No:

REF:SD-04210-18/LOT:0000016139

Article No:

REINFORCED SURGICAL CLOTH(HIGH PERFORMANCE)

Name and identity of test item:

One sample blue surgical gown.(Claimed to be;4 Pieces Color;Medikal Blue)

The date of receipt of test item:

12.04.2021

Re-submitted/re-confirmation

date:

Date of test:

12.04.2021-26.04.2021

Remarks:

Sampling:

End-Use:

Care Label:

The results given in this report belong to the received sample by vendor.

Number of pages of the report:

The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the

Mutual recognition of test reports. EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş. accredited by TÜRKAK under registration number [AB-0583-T] for ISO 17025:2017 as test laboratory.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Date 26.04.2021 Customer Representative Yeşim ŞAHİN

Head of Testing Laboratory Sevim A. RAZAK 26.04.2021

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AB-0583-T 21012425ing 04-21

REQUIRED TESTS	RESULT	COMMENTS
MICROBIOLOGICAL TEST		
Microbial Cleanliness (Bioburden)	P	
Resistance to Bacterial Penetration-Wet Method	P	
Resistance to Microbial Penetration-Dry Method P		
PHYSICAL PROPERTIES TESTS		
Tensile Stregth / Dry	P	
Tensile Stregth / Wet	P	
Bursting Strength / Dry	P	I. The second se
Bursting Strength / Wet	P	
Water Permeability	P	
Blood Splash Resistance	P	
Lint And Other Particles Generation From Nonwoven	Р	

- P: Pass
- F: Fail
- R: Refer to retailer technologist.

Test results were evaluated according to EN 13795-1:2019(*) High Performance Properties Critical Sample Group limit values (Table 1)

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. If requested, measurement uncertainty will be reported. But unless otherwise specified, measurement uncertainty is not considered while stating compliance with specification or limit values. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. The declaration of conformity was given in accordance with the Simple Acceptance Decision Rule. Tests marked (*) in this report are not included in the accreditation schedule



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AB-0583-T 21012425ing 04-21

TEST RESULTS

MICROBIAL CLEANLINESS (Bioburden); EN ISO 11737-1:2018

The sample is put in extraciton liquid after shaking well after shaking well (250 rpm,5 min), inoculated on the suitable agar. The plates are incubated for 3 days at 30 ± 1 ° C for 72 hours, and 7 days at (20 to 25) °C for TSA and SDA plates respectively. Total microoragnisms counts are calculated.

	RESULTS	REQUIREMENT
Microbial cleanliness (cfu/100 cm²)	7 cfu/100 cm ²	≤300 cfu/100 cm²

*cfu= Colony forming unit.

AB-0583-T 21012425ing 04-21

TEST RESULTS

RESISTANCE TO BACTERIAL PENETRATION-WET METHOD;

BS EN ISO 22610: 2006

A test sample is placed on the agar plate on a rotating disc. Bacteria carrier material and coating film are placed on the test sample and all parts are fixed on the disk. A finger is placed on the test sample to apply a certain force ($3N \pm 0.02$). The finger moves on the test sample over the entire surface of the agar within 15 minutes. 5 studies are carried out for 15 minutes. 6. The study is repeated by inverting the sample.

Sample amount: 5 pieces 25x25cm2

Carrier Material: 30 µm thin, 25x25cm2 Polyurethane Film

Coating Material: 25x25cm2 HDPE Film

Microorganism: Staphylococcus aureus ATCC 29213

Bacterial Concentration (kob / ml): $5x10^3$ kob/mlIncubation Conditions: (36 ± 1) ° C 48 hours

	RESU	ULTS	
Number of Populating	Bacteria (cfu)	Penetratio	on Rate
X_1	0	RCUM1	0
X_2	0	RCUM2	0
X_3	0	RCUM3	0
X ₄	0	RCUM4	0
X_5	0	RCUM5	0
Z	462		
T		462	

X₁...... X₅: Number of colonies growing in 5 parallel petri in the same sample

Z: number of colonies growing in the sixth petri dish

T: $X_1 + X_2 + X_3 + X_4 + X_5 + Z$

 $R_{CUMI} = X_I/T$

 $R_{\text{CUM2}} = (X_2 + X_1)/T$

 $R_{CUM3} = (X_3 + X_2 + X_1)/T$

 $R_{CUM4} = (X_4 + X_3 + X_2 + X_1)/T$

 $R_{CUM5} = (X5 + X_4 + X_3 + X_2 + X_1)/T$

	Result	Expected value (*)
I _B	6	≥6

AB-0583-T 21012425ing 04-21

≤300 cfu/g

TEST RESULTS

RESISTANCE TO MICROBIAL PENETRATION-DRY METHOD; ISO 22612:2005

0 cfu/g

Samples and containers are sterilized. Agar plates are placed in each container. Samples are placed aseptically in the apparatus. The covers are closed. After making a pot in the sample with the piston, the pistons are removed and $0.5~g\pm0.1~g$ are added to five samples from the powder contaminated with bacteria and the six to the non-contaminated powder. Then all openings are closed with a plastic bag. The device is operated to give 20,800 vibrations per minute. The test time is 30 minutes. After the test is over, all agar plates are incubated at 35 ° C for 24 hours.

Sample amount:	6 pieces 20x20 cm ²			
Mikroorganism:	Bacillus subtilis ATCC 9372	cillus subtilis ATCC 9372		
Bacterial concentration (cfu/ml):	1x10 ⁸ kob/ml 35°C / 24 hours			
neubation conditions:				
	RESULTS			
Nun	ber of Populationg Bacteria (cfu)			
1		0		
2		0		
3		0		
4		0		
5		0		
6 (Control)		0		
Total		0		
Logarithm		-		
	RESULT			
Resu	lt (cfu/g)		Expected Value	

AB-0583-T 21012425ing 04-21

TEST RESULTS

TENSILE STRENGTH; EN 29073-3:1996

Instron 5969 (Load: 5 kN), Strip Method. Speed: 100 mm/min±10, Gauge length 200 mm. Pre-load was not applied. Without wetting samples. The average results are given for width and length direction of three samples

Performed in the conditioned room (20±2°C-65%±4).

Dry;

	RESULT	REQUIREMENT
Width	151.1 N	≥ 20N (Dry)
Length	149.9 N	≥ 20N (Dry)

TENSILE STRENGTH; EN 29073-3:1996

Instron 5969 (Load: 5 kN), Strip Method. Speed: 100 mm/min±10, Gauge length 200 mm. Pre-load was not applied. Without wetting samples. The average results are given for width and length direction of three samples Performed in the conditioned room (20±2°C-65%±4). Wet;

RESULT REQUIREMENT Width 149.3 N ≥ 20N (Wet) Length 154.6 N ≥ 20N (Wet)

BURSTING STRENGTH;; ISO 13938-1:1999

SDL ATLAS M229 tester. Test area: 30.5 mm diameter The average results are given of 3 samples. Performed in the conditioned room (20±2°C-65%±4).

RESULT REQUIREMENT Dry; 310.6 kPa ≥ 40 kPa (Dry) Height at Burst* 10.4 mm

AB-0583-T 21012425ing 04-21

TEST RESULTS

BURSTING STRENGTH;; ISO 13938-1:1999

SDL ATLAS M229 tester. Test area: 30.5 mm diameter The average results are given of 3 samples. Performed in the conditioned room (20±2°C-65%±4).

Wet:	RESULT	REQUIREMENT
,,	332.0 kPa	≥ 40 kPa (Wet)
Height at Burst*	12.4 mm	

WATER PERMEABILITY; ISO 811:2018

Hydrostatic Head Tester, Textest marka Fx 3000 model Temperature of water 20°C. Pressure increase ratio 10 mbar/min. Performed in the conditioned room (20±2°C-65%±4)

Sample 1 Sample 2 Sample 3	RESULT 555.9 cm H ₂ O 587.5 cm H ₂ O 562.0 cm H ₂ O	REQUIREMENT ≥ 100 cm H ₂ O
Sample 4 Sample 5	560.0 cm H ₂ O	
Average	578.3 cm H ₂ O 568.7 cm H ₂ O	

AB-0583-T 21012425ing 04-21

TEST RESULTS

DETERMINA		E RESISTANCE T	O PENETRATIO	N BY BLOOD AT	ND RODV	
FLUIDS-USI	NG SYNTHET	TIC BLOOD; ISO 1	6603:2004	A DI BLOOD A	ND DOD1	
Textest, FX 3000	-IV model + Extern	nal Blood Cell ± 10% relative humidity		st 24 hours before test	ina	
Test Procedure		A procedure	ensible or elastomeric ma		mg.	
Pressure	Time	Test Result				
(kPa) (Min.)	Test 1	Test 2	Test 3	Overall Result		
0	5	PASS	PASS	PASS		
14	1	PASS	PASS	PASS		
0	4	PASS	PASS	PASS		
The time of	failure (sn)	-	-	-	PASS	
Thickness of n (mr		0.61	0.61	0.61		
Weight of materi	al tested (g/m²):	0.88	0.88	0.88		

AB-0583-T 21012425ing 04-21

TEST RESULTS

LINT AND OTHER PARTICLES GENERATION FROM NONWOVEN; ISO 9073-10: 2003

5 samples in longitudinal direction (separate for inner and outer surface) are tested. The samples are placed in the Gelbo Flex device, which makes twisting and compression movements, in a clean room in Class 5 category according to ISO 14644-1. Lint and particles detached from the sample are counted with counter device and classified to size range.

SOLAIR 3100 particles measuring device

Min. measuring size: 0,3 μm, Maks. measuring size: 25 μm Air Flow: : 28,3 ± 1,4 L/dk

Working mode: 30 sec x 10 consecutive periods

SAMPLE (INNER SURFACE)		SAMPLE (OUTER SURFACE)	
Total linting:	86	Total linting:	26
Standard deviation:	50	Standard deviation:	20
Coefficient of variation:	%58	Coefficient of variation:	%78
Coefficient of linting (CL):	2	Coefficient of linting (CL):	1
	SAM	PLE (TOTAL)	
<u>Total linting</u> :	112		
Coefficient of linting (CL)*	2		

^{*} According to EN ISO EN ISO 13795-1:2019, Coefficient of linting (CL) (log 10) should be \leq 4 for analysis of critical product area and less critical product area of both standard performance and high performance testing.