LSTO NO	OTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş. senyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE TEST REPORT DENEY RAPORU	VEST TEXT TO 20035727         -ing       10-20
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: Name and identity of test item:	PROTECTED SURGICAL APRON Coated medical blue surgical gown.	
The date of receipt of test item: Re-submitted/re-confirmation date:	29.09.2020	
Date of test: Remarks:	29.09.2020-12.10.2020	
Sampling:	The results given in this report belong to the	he received sample by vendor.
End-Use:	-	
Care Label:	Not specified.	
Number of pages of the report:	7	
	ncy (TURKAK) is signatory to the multilate ion (EA) and of the International Laborate ts.	
EKOTEKS LABORATUVAR ve number [AB-0583-T] for ISO 170	GÖZETİM HİZMETLERİ A.Ş. accredite 25:2017 as test laboratory.	d by TÜRKAK under registration
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 12.10.202	0 Customer Representative Hatice ACARALP	<i>Head of Testing Laboratory</i> Sevim A. RAZAK 12.10.2020

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

R: Refer to retailer technologist.

<sup>(1)</sup>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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## **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** 

	KESULI
Weft	72.5 N
Warp	162.8 N

#### 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>
Weft	75.1 N
Warp	160.1 N

#### BURSTING STRENGTH;; ISO 13938-1:1999

SDL ATLAS M229 tester. Test area: 30.5 mm diameter Rate of increase in volume; 29 cm<sup>3</sup>/min. The average results are given of five samples. Performed in the conditioned room  $(20\pm2^{\circ}C-65\%\pm4)$ .

	<u>RESULT</u>
Dry;	201.4 kPa

Height at Burst\*

14.9 mm

#### **REQUIREMENT**

 $\frac{\textbf{REQUIREMENT}}{\geq 20N \text{ (Dry)}}$  $\geq 20N \text{ (Dry)}$ 

 $\geq 20N \text{ (Wet)}$  $\geq 20N \text{ (Wet)}$ 

#### **REQUIREMENT**

 $\geq$  40 kPa (Dry)

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## 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;  $45.2 \text{ cm}^3/\text{min}$ . The average results are given of five samples. Performed in the conditioned room ( $20\pm2^\circ\text{C-}65\%\pm4$ ).

Wet;	<u>RESULT</u> 190.2 kPa
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  $(20\pm2^{\circ}C-65\%\pm4)$ 

	<u>RESULT</u>	
Sample 1	147.0 cmSS	
Sample 2	150.0 cmSS	
Sample 3	157.2 cmSS	
Sample 4	163.3 cmSS	
Sample 5	160.1 cmSS	

Average

REQUIREMENT

 $\frac{\textbf{REQUIREMENT}}{\geq 40 \text{ kPa (Wet)}}$ 

 $\geq 100 \text{cmSS}$ 

158.6 cmSS

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## **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  $30 \pm 1$  ° C for 72 hours, growth microorganisms are counted on the agar.

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

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## **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:	$(36 \pm 1)$ ° C 48 hours	

	RES	JLTS	
Number of Populating Ba	acteria (cfu)	Pen	etration Rate
X <sub>1</sub>	0	R <sub>CUM1</sub>	0
X <sub>2</sub>	0	R <sub>CUM2</sub>	0
X <sub>3</sub>	0	R <sub>CUM3</sub>	0
X4	0	R <sub>CUM4</sub>	0
X <sub>5</sub>	0	R <sub>CUM5</sub>	0
X <sub>5</sub> Z	459		•
Т		459	
$R_{CUM2} = (X2 + X1)/T$ $R_{CUM3} = (X3 + X2 + X1)/T$ $R_{CUM4} = (X4 + X3 + X2 + X1)/T$ $R_{CUM5} = (X5 + X4 + X3 + X2 + X1)/T$	Т		
	BARRIER	INDEX (IB)	
	Re	esult	Expected value (*)
lв		6	≥2,8
$I_B = 6 - (CUM1 + CUM2 + CUM3 + * EN 13795-1:2019 Surgical gownsTable-1.$		rements and test metho	ods are evaluated according to

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# 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  $0.5 \text{ g} \pm 0.1 \text{ g}$  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 <sup>2</sup>				
Mikroorganism:	Bacillus subtilis ATCC 9372				
Bacterial concentration (cfu/ml):	1x10 <sup>8</sup>				
Incubation conditions:	35°C / 24 hours				
RESULTS					
Number of Populationg Bacteria (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 dr	apes - Requir	rements and test methods are	evaluated according to		
Table-1.					
	RES	ULT			
Result (cfu/g)			Expected Value		
9 kob/gr			≤300kob/gr		