

AB-0583-T

21005646

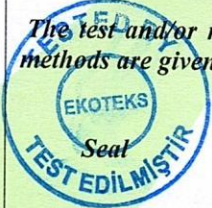
02-21

Customer name: FULSET TEKSTİL ÖZEL SAĞLIK HİZMETLERİ SAĞLIK MALZ. İNŞ.
TURİZM SAN. VE TİC. LTD. ŞTİ.
Address: Veysel Karani Mah. 4. Veysel Sok. No:44/6 Osmangazi-BURSA
Buyer name: -
Contact Person: -
Order No: -
Article No: -
Name and identity of test item: Blue non-woven gown.(Claimed to be; 6 PIECES MEDICAL BLUE -
SURGICAL GOWN)
The date of receipt of test item: 11.02.2021
Re-submitted/re-confirmation date: -
Date of test: 11.02.2021-22.02.2021
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: 6

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
22.02.2021

Customer Representative
Yeşim ŞAHİN

Head of Testing Laboratory
Sevim A. RAZAK
22.02.2021

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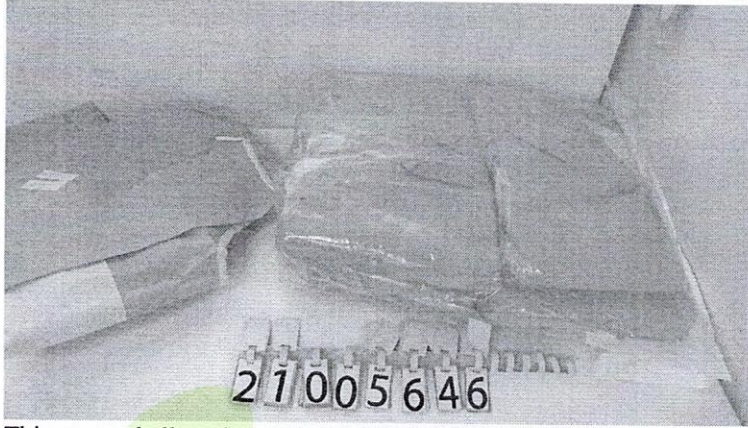
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REQUIRED TESTS	RESULT	COMMENTS
PHYSICAL PROPERTIES		
Tensile Strength / Dry	P	
Tensile Strength / Wet	P	
Bursting Strength / Dry	P	
Bursting Strength / Wet	P	
Water Permeability(ISO 811)	P	
MICROBIOLOGICAL TESTS		
Microbial Cleanliness (Bioburden)	P	
Wet-Bacterial Penetration	P	
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) (1) Evaluation was performed according to the AAMIPB70 guidelines.		

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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TEST RESULTS

TENSILE STRENGTH; EN 29073-3:1996

Instron 5969 (Load: 50 kN), Strip Method.

Speed: 100 mm/min \pm 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 \pm 2°C-65% \pm 4).

Dry ;

RESULT

Weft

52.9 N

Warp

105 N

REQUIREMENT

\geq 20N (Dry)

\geq 20N (Dry)

TENSILE STRENGTH; EN 29073-3:1996

Instron 5969 (Load: 50 kN), Strip Method.

Speed: 100 mm/min \pm 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 \pm 2°C-65% \pm 4).

Wet ;

RESULT

Weft

46.4 N

Warp

100.8 N

REQUIREMENT

\geq 20N (Wet)

\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 \pm 2°C-65% \pm 4).

Dry ;

RESULT

189.8 kPa

Height at Burst*

18.2 mm

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 cm³/min.

The average results are given of five samples.

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

Wet ; **RESULT**
176.1 kPa

REQUIREMENT
≥ 40 kPa (Wet)

Height at Burst* 18.6 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
Sample 1	34.9 cmH ₂ O
Sample 2	34.2 cmH ₂ O
Sample 3	30.0 cmH ₂ O
Sample 4	31.9 cmH ₂ O
Sample 5	34.3 cmH ₂ O
Average	33.0 cmH ₂ O

REQUIREMENT
≥ 20 cmH₂O

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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 ± 1 ° C for 72 hours, growth microorganisms are counted on the agar.

	<u>RESULTS</u>	<u>REQUIREMENT</u>
Microbial cleanliness (cfu/100cm ²)	148 cfu/100cm ²	≤300 cfu/100cm ² 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):	1-4x104 kob / ml
Incubation Conditions:	(36 ± 1) ° C 48 hours

RESULTS			
Number of Populating Bacteria (cfu)		Penetration 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	503		
T		503	

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: X₁ + X₂ + X₃ + X₄ + X₅ + Z

$R_{CUM1} = X_1/T$
 $R_{CUM2} = (X_2 + X_1)/T$
 $R_{CUM3} = (X_3 + X_2 + X_1)/T$
 $R_{CUM4} = (X_4 + X_3 + X_2 + X_1)/T$
 $R_{CUM5} = (X_5 + X_4 + X_3 + X_2 + X_1)/T$

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.