



**EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.**
Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar
İstanbul/ TÜRKİYE

TEST REPORT
DENEY RAPORU

20013650-
ing

05-20

Customer name: ALMAXTEX TEKSTİL SANAYİ VE TİC A.Ş
Address: KARAPINAR MAH ANKARA YOLU CAD NO:900 YILDIRIM/BURSA
Buyer name: -
Contact Person: TÜRKAN CANOK/ESRA IŞIK
Order No: -
Article No: -
Name and identity of test item: Dark grey melange knitted fabric.(GUARD)
The date of receipt of test item: 27.04.2020
Re-submitted/re-confirmation date: -
Date of test: 27.04.2020-06.05.2020
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: 5



Date
06.05.2020

Customer Representative
Servin YURTSEVEN

Head of Testing Laboratory
Sevim A. RAZAK
06.05.2020

This report shall not be reproduced other than in full except with the permission of the laboratory.
Testing reports without signature and seal are not valid.

Gen.f136-2/03

EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.

20013650-
ing

05-20

REQUIRED TESTS	RESULT	COMMENTS
PHYSICAL PROPERTIES		
Breathability(Differential Pressure) ⁽¹⁾	P	
MICROBIOLOGICAL TESTS		
Bacterial Filtration Efficiency-BFE ⁽²⁾	P	Type I
Microbial Cleanliness(Bioburden) ⁽³⁾	P	
P: Pass F: Fail R: Refer to retailer technologist. ⁽¹⁾ Test results were evaluated according to EN 14683:2019+AC:2019 Annex -C/Table- 1 limit values ⁽²⁾ Test results were evaluated according to EN 14683:2019+AC:2019 Annex-B/Table- 1)limit values ⁽³⁾ Test results were evaluated according to EN ISO 11737-1:2018 limit values		

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.



Gen.f136-2/03

This report shall not be reproduced other than in full except with the permission of the laboratory.
Testing reports without signature and seal are not valid.

TEST RESULTS

BREATHABILITY (Differential Pressure)

Test Method : EKOTEKS 70 - Ref: EN 14683:2019+AC:2019 EK-C (*)

Test area is 25 mm in diameter , 5 different sample was taken

Adjusted airflow is 8 l/min. The differential pressure is read directly using a differential pressure manometer .

	<u>RESULT</u>	<u>REQUIREMENT</u>
Differential Pressure) (Pa/cm ²)	7.4 Pa/cm ² (*)	< 40 Pa/cm ² Type I and Type II mask

*average results are given

EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.

20013650-
ing

05-20

TEST RESULTS

BACTERIAL FILTRATION EFFICIENCY (BFE)

Test Metod: Bacterial Filtration Efficiency Testing –BFE /Ref: EN 14683:2019+AC:2019 Annex B Medical Face Masks, Requirements and Test Methods (*)

A specimen of the mask material is clamped between a impactor and an aerosol chamber. An aerosol of *Staphylococcus aureus* is introduced into the aerosol chamber and drawn through the mask material and the impactor under vacuum. The bacterial filtration efficiency of the mask is given by the number of colony forming units passing through the medical face mask material expressed as a percentage of the number of colony forming units present in the challenge aerosol.

Singlelayer

Test Flow Rate	28,3 L/min
Test Flow Time	2 minute
Sample Sizes	5 pieces mask
Microorganism	<i>Staphylococcus aureus</i> ATCC 6538
Bacterial concentration (cfu/ ml)	5x10 ⁵ cfu/ ml
incubation conditions	24 hour, 35°C ± 2°C
Positive control sample average of number of Bacteria (C)	3x10 ³ cfu/ ml

RESULTS			
Number of Test Sample	Test Sample (T) Number of Bacteria (cfu/ml)	Bacterial Filtration Efficiency (% B)	Requirement BFE (%)
1	70	%97.7	Type I ≥95
2	72	%97.6	Type II ≥98
3	75	%97.5	Type II ≥98
4	78	%97.4	Type II ≥98
5	86	%97.1	Type II ≥98

cfu: Colony-forming unit

$$B = (C - T) / C \times 100$$

%B: Bacterial Filtration Efficiency

C: is the mean of the total plate counts for the two positive control runs

T: is the total plate count for the test specimen

EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.

20013650-
ing

05-20

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.

	RESULTS	REQUIREMENT
Microbial cleanliness (cfu/g)	24kob/g	≤ 30 cfu/g Type I and Type II mask