

## EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş.

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE

> TEST REPORT DENEY RAPORU

20013650ing

05-20

Customer name: ALMAXTEX TEKSTİL SANAYİ VE TİC A.S.

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

Seal EKOTEKS

*Date* 06.05.2020

Customer Representative
Servin Will 1888 EN

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.

## EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş.

20013650ing 05-20

REQUIRED TESTS	RESULT	COMMENTS
PHYSICAL PROPERTIES		
Breathability(Differential Pressure) (1)	P	
MICROBIOLOGICAL TESTS		
Bacterial Filtration Efficiency-BFE <sup>(2)</sup>	P	Type I
Microbial Cleanliness(Bioburden)(3)	P	

P: Pass

F: Fail

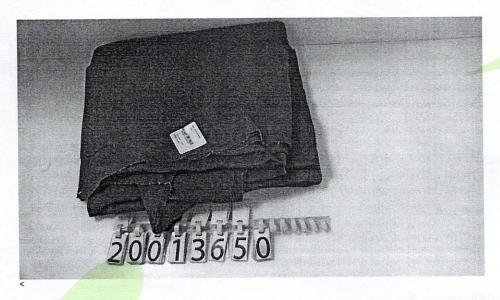
R: Refer to retailer technologist.

(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.



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.

20013650ing 05-20

#### **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 .

	RESULT	REQUIREMENT
Differential Pressure) (Pa/cm²)	7.4 Pa/cm²(*)	< 40 Pa/cm² Type I and Type II mask

<sup>\*</sup>average results are given

#### EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş.

20013650ing 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	Staphylococcus aureus ATCC 6538
Bacterial concentration (cfu/ ml)	5x10 <sup>5</sup> cfu/ ml
incubation conditions	24 hour, 35°C ± 2°C
Positive control sample average of number of Bacteria (C)	3x10 <sup>3</sup> 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 200
4	78	%97.4	
5	86	%97.1	

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

# Gen.f136-2/03

#### EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş.

20013650ing 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  $\pm$  1  $^{\circ}$  C for 72 hours, growth microorganisms are counted on the agar.

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