



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

TEST REPORT
DENEY RAPORU

20009109- ing
03-20

Order No: -
Article No -
Name and identity of test item: One sample of white non-woven fabric.(White)
The date of receipt of test item: 05.03.2020
Re-submitted/re-confirmation date: -
Date of test: 05.03.2020-12.03.2020
Remarks: -
Sampling: The results given in this report belong to the received sample by vendor.
End-Use: Women's/Men's/Kid's wear
Care Label: -
Number of pages of the report: 3

Seal

Date
12.03.2020

Customer Representative
Zahide TAPAN

Head of Testing Laboratory
Sevim A. RAZAK
12.03.2020

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.**

20009109-
ing

03-20

Gen.f136-2/03

REQUIRED TESTS	RESULTS	COMMENTS
MICROBIOLOGICAL TESTS		
Bacterial Filtration Efficiency	-	
No requirement was given		

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.

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

20009109-
ing

03-20

TEST RESULTS

BACTERIAL FILTRATION EFFICIENCY (BFE)

Test Metod: EKOTEKS 70 (In-House Method-Bacterial Filtration Efficiency Testing /Ref: TS EN 14683:2019 Medical Face Masks, Requirements and Test Methods (*))

A specimen of the mask material is clamped between an 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.

Test Flow Rate	28,3 L/min
Test Flow Time	2 minute
Sample Sizes	10x10 cm ²
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)
1	50	%98.3
2	51	%98.3
3	53	%98.2
4	49	%98.4
5	55	%98.2

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