

EKOTEKS LABORATUVAR ve GÖZETİM HIZMETLERI A.S.

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE





AB-0583-T

20011163

03-20

Customer name:

KURT KUMAS SAN. VE TİC.A.S

Address:

OSB 83228 Nolu CAD. NO:16 ŞEHİTKAMİL/GAZİANTEP

Buyer name:

Contact Person:

MURAT ERBAĞCI

Order No:

Article No:

Name and identity of test item:

One sample of white nonwoven fabric. (Claimed to be; 25 GSM

MELTBLOWN)

The date of receipt of test item:

19.03.2020

Re-submitted/re-confirmation

date:

Date of test:

19.03.2020-23.03.2020

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: 3

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 23.03.2020 Customer Representative

Head of Testing Laboratory

Sevim A. RAZA 23.03.20

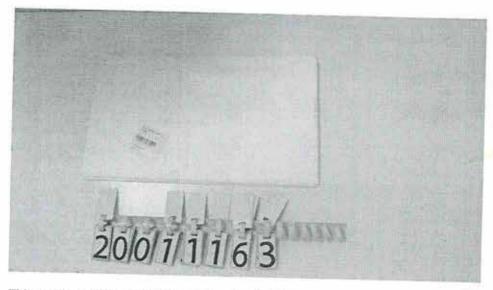
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AB-0583-T 20011163 03-20

REQUIRED TESTS	RESULT	COMMENTS
MICROBIOLOGICAL TEST		
Bacterial Filtration Efficiency (BFE)		

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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AB-0583-T 20011163 03-20

TEST RESULTS

BACTERIAL FILTRATION EFFICIENCY (BFE)

Test Metod: EKOTEKS 70 (In-House Method-Bacterial Filtration Efficiency Testing /Ref: TS EN 14683:2019 Medica 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.

Test Flow Rate	28,3 L/min
Test Flow Time	2 minute
Sample Sizes	20x20 cm ²
Microorganism	Staphylococcus aureus 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)	2.6x10 ³ cfu/ ml

	RESULTS	
Number of Test Sample	Test Sample (T) Number of Bacteria (cfu/ml)	Bacterial Filtration Efficiency (% B)
1	15	99.4 %
2	10	99.6 %
3	25	99.0 %
4	24	99.1 %
5	26	99.0 %

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

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Esenyurt Firuzköy Bulvan No.29 34325 Avcılar Istanbul/ TÜRKİYE

TEST REPORT DENEY RAPORU

20009637

03-20

Customer name:

Address:

Buyer name:

Contact Person:

Order No:

MB - MELT BLOWN FABRIC Article No:

White non-woven fabric. (Claimed to be; 100 % PP, 30 gsm, Color Code; Name and identity of test item:

White)

The date of receipt of test item: 09.03.2020

Re-submitted/re-confirmation

date:

09.03.2020-13.03.2020 Date of test:

Remarks:

The results given in this report belong to the received sample by vendor. Sampling:

End-Use:

Not Specified Care Label:

Number of pages of the report:

Date 13.03.2020 Customer Representative

Head of Testing Laboratory Sevim A. RAZAK

13.03.2020 0

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EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş.

20009637 03-20

REQUIRED TESTS	RESULT	COMMENTS
MICROBIOLOGICAL TEST Antibacterial Activity	P	

P: Pass

F: Fall

R: Refer to retailer technologist.

Test results were evaluated according to EKOTEKS 70 (REF: 14683:2014) requirements

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified if requested, measurement uncertainty with the reported while stating compliance measurement uncertainty with the reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a 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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20009637 63-20

TEST RESULT

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 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.

Test Flow Rate	28,3 L/min
	2 minute
Test Flow Time	5 piece (10x10 cm²)
Sample Sizes	Staphylococcus aureus ATCC 6538
Microorganism	5x10 ^s ctu/ ml
Bacterial concentration (cfu/ ml)	
Incubation conditions	24 hour, 35°C ± 2°C
Positive control average(C)	3.0x10 ³ cfu/ ml

	RESULTS	
Test Sample (T)	Number of Bacteria (cfu/ml)	Bacterial Filtration Efficiency (% B)
4	115	96.2 %
*	110	96.3 %
2		96.0 %
3	120	95.8 %
4	126	
	130	95.7 %
5		

cfu: Colony-forming unit

B= (C-T)/C x 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

Test Report No.: 721653307 Report Date: 17 April 2020



Results

No.	Test Item	Test Result
1 Bacterial	Bacterial Filtration Efficiency (BFE) Test	Specimen 1#: 99.9%
		Specimen 2#: 99.9%
		Specimen 3#: 99.8%
		Specimen 4#: 99.8%
		Specimen 5#: 99.7%
2	Differential Pressure Test	25.3 Pa/cm ²
3	Synthetic Blood Penetration Test	Specimen 1#~13#: None seen
		Specimen 1#: 22 CFU/g
	4 Microbial Cleanliness Test	Specimen 2#: 14 CFU/g
4		Specimen 3#: 10 CFU/g
		Specimen 4#: 8 CFU/g
		Specimen 5#: 10 CFU/g

Bacterial Filtration Efficiency (BFE) Test

1. Purpose

For evaluating the bacterial filtration efficiency (BFE) of mask.

2. Sample description was given by client

Sample description : Surgical masks

Specification : M

Lot Number : 200318

Sample Receiving Date: 2020-03-28

3. Test Method

EN 14683:2019+AC:2019(E) Annex B

4. Apparatus and materials

- 4.1 Staphylococcus aureus ATCC 6538.
- 4.2 Peptone water.
- 4.3 Tryptic Soy Broth(TSB).
- 4.4 Tryptic Soy Agar(TSA).
- 4.5 Bacterial filtration efficiency test apparatus.
- 4.6 Six-stage viable particle Anderson sampler.
- 4.7 Flow meters.

5. Test specimen

- 5.1 As requested by client, take a total of 5 test specimens.
- 5.2 Prior to testing, condition all test specimens for a minimum of 4 h at (21±5)°C and (85±5)% relative humidity.

Test Report No.: 721653307 Report Date: 17 April 2020



TEST REPORT

Sample Description : Surgical masks

Sample Quantity : 50 pieces
Lot Number/Batch Code : 200318

Specification : M Size : /

Type of Mask : Type IIR

Brand Name : /

Remark: The above information was provided by applicant.

Summary of Test Results

No.	Test Item	Test Standard	Judgement
1	Bacterial Filtration Efficiency (BFE) Test	EN 14683:2019+AC:2019(E) Annex B	Pass
2	Differential Pressure Test	EN 14683:2019+AC:2019(E) Annex C	Pass
3	Synthetic Blood Penetration Test	ISO 22609:2004	Pass
4	Microbial Cleanliness Test	EN 14683:2019+AC:2019(E) Annex D	Pass

Note: Pass = Meet customer requirements;

Fail = Fail customer requirements;

= No comment; N.D. = Not detected.

