

EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş.

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE



EKOTEK

TEST REPORT DENEY RAPORU

AB-0583-T 20028129

08-20

Customer name:

FOUR TO FOUR CONCEPT SRL

Address:

SOSEAUA DE CENTURA 24 26 GREEN PARK ROMANYA

Buyer name:

Contact Person:

Order No:

Article No:

Name and identity of test item: Blue mask

The date of receipt of test item:

12.08.2020

Re-submitted/re-confirmation date:

Date of test:

12.08.2020-19.08.2020

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:

The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European cooperation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the

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

Seal

020

Customer Representative Zahide TA

Head of Testing Laboratory Sevim A. RAZAK

9.08.2020

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REQUIRED TESTS	RESULT	COMMENTS
MICROBIOLOGICAL TESTS		
Bacterial Filtration Efficiency-BFE	P	
Microbial Cleanliness(Bioburden)	P	
Splash Resistance	P	
PHYSICAL PROPERTIES		
Breathability(Differential Pressure)	P	

P: Pass

F: Fail

R: Refer to retailer technologist.

Tests results were evaluated according to EN 14683:2019+AC :2019 Tablo 1 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.



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TEST RESULTS

BACTERIAL FILTRATION EFFICIENCY (BFE)

Test Metod: (Bacterial Filtration Efficiency Testing –BFE /Ref: EN 14683:2019+AC: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
Test Flow Time	2 minute
Sample Sizes	5 pieces mask
Microorganism	Staphylococcus aureus ATCC 6538
Bacterial concentration (cfu/ ml)	5x10 ⁵ cfu/ ml
incubation conditions	24 hour, 35°C ± 2°C
Pozitif Kontrol Numune Bakteri Sayısı Ortalaması (C)	2.8x10 ³ kob/ ml

	SONUÇLAR		
Deney Numunesi Sayısı	Deney Numunesi Bakteri Sayısı(kob) (T)	Bakteri Filtrasyon Verimliliği (%B)	İstenen Değer BFV (%)
1	56	%98.0	
2	50	%98.2	Tip I ≥95
3	45	%98.4	Tip II ≥98
4	43	%98.5	
5	57	%98.0	

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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TEST RESULTS

MICROBIAL CLEANLINESS (Bioburden)

Test Metod: 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 ° C for 72 hours, growth microorganisms are counted on the agar.

RESULTS	REQUIREMENT
	≤30 cfu/g Type I and Type II mask

^{*}cfu= Colony forming unit.

SPLASH RESISTANCE

Test Metod: EN 14683:2019+AC :2019 (Clause 5.2.4) the resistance of the medical face mask to penetration of splashes of liquid shall conform to the minimum value given for Type IIR in Table 1

ISO 22609 :2004 Clothing for protection against infectious agents — Medical face masks — Test method for resistance against penetration by synthetic blood (fixed volume, horizontally projected)

Test Condition (21 \pm 5) °C ve (85 \pm 5) % relative humidity, 4 hrs

6 different samples were taken

	SPLASH RESISTANCE PRESSURE (kPa)	RESULTS	REQUIREMENT
1	>21.3 kPa	PASS	
2	>21.3 kPa	PASS	>40 l/Da
3	>21.3 kPa	PASS	
4	>21.3 kPa	PASS	≥16 kPa
5	>21.3 kPa	PASS	
6	>21.3 kPa	PASS	
Average Result	>21.3 kPa	PASS	

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TEST SONUÇLARI

BREATHABILITY (Differential Pressure)

Test Method: EN 14683:2019+AC :2019 (TS EN 14683+AC:2019) Annex-C

Test Condition (21 \pm 5) °C ve (85 \pm 5) % relative humidity, 4 hrs 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 .

SAMPLE	DIFFERENTIAL PRESSURE RESULT	REQUIREMENT
1	45.0 Pa/cm ²	
2	46.1 Pa/cm2	
3	45.6 Pa/cm2	< 60 Pa/cm ²
4	46.9 Pa/cm2	
5	45.2 Pa/cm2	
Average Result	45.7 Pa/cm2	