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

EKOTEKS

20015811-ing
06-20

TEST REPORT
DENEY RAPORU

Customer name:	GLOBICHEM KİMYA İTH.İHR.SAN. TİC. LTD. ŞTİ.
Address:	BARAKFAKİH MAH. 7.CAD. NO:2/3 KESTEL/BURSA
Buyer name:	-
Contact Person:	TALHA UĞUR
Order No:	3
Article No:	1
Name and identity of test item:	White mask.
The date of receipt of test item:	20.05.2020
Re-submitted/re-confirmation date:	-
Date of test:	20.05.2020-01.06.2020
Remarks:	-
Sampling:	The results given in this report belong to the received sample by vendor.
End-Use:	Mask
Care Label:	Not specified.
Number of pages of the report:	4

Seal	***Date***	***Customer Representative***	***Head of Testing Laboratory***
	01.06.2020	Servin YURTSEVEN	Sevim A. RAZAK 01.06.2020

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

P: Pass
F: Fail
R: Refer to retailer technologist.
(1)Test results were evaluated according to EN 14683:2019+AC:2019 Annex-B/Table- 1)limit values
(2)Test results were evaluated according to EN ISO 11737-1:2018 limit values
(3)Test results were evaluated according to EN 14683:2019+AC:2019 Annex -C/Table- 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.

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.

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
Positive control sample average of number of Bacteria (C)	$2.3x10^3$ cfu/ ml

RESULTS			
Number of Test Sample	**Test Sample (T) Number of Bacteria (cfu/ml)**	**Bacterial Filtration Efficiency (% B)**	**Requirement BFE (%)**
1	74	**%96.3**	**Type I ≥95**
2	71	**%96.5**	**Type II ≥98**
3	71	**%96.5**	
4	76	**%96.2**	
5	77	**%96.2**	

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 RESULTS

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)	12 kob/g	≤30 cfu/g Type I and Type II mask

BREATHABILITY (Differential Pressure)

Test Method : EN 14683:2019+AC :2019 (TS EN 14683+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/cm^2)	31.5 Pa/cm^2(*)	< 40 Pa/cm^2 Type I and Type II mask

***average results are given**