

Analytical Report Nr.

AR-20-YL-008385-01

Sample code Nr.

560-2020-00009083

Date

02/12/2020

ANALYTICAL REPORT**Client Information**

Bag Filter
No 3, Lot 7 ROUTE DE SAFI, Sid Ghanem
Marrakech MOROCCO

aelbaroudi@macadvisory.ma

For the attention of Amine El Baroudi

Sample Information

Order Code: EUAA70-00009433
Reception Date: 25-Nov-2020
Analysis Starting Date: 25-Nov-2020
Analysis Ending Date: 2-Dec-2020
Sample code Nr. 560-2020-00009083
Sample described as: Masks

Requirements and decision rule

Customer requirements: EN 14683:2019+AC:2019 TYPE IIR
Decision Rule: Shared risk - Simple acceptance.

Information provided by the customer*

Client Reference: Type IIR surgical mask (White)
Sample Description:
Purchase Order Number:

Batch 202011002

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SAMPLE PICTURE



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CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
Breathability (Differential Pressure) EN 14683:2019+AC:2019 Annex C			
A-Mask	X		

Remark: Test has been performed as per application request

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COMPONENT LIST:

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
CUST 01	A-Mask	Mask	White	---

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MASKS TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
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Analyses on:A-Mask**Breathability (Differential Pressure)**

Analysis Ending Date: 02/12/2020

EN 14683:2019+AC:2019 Annex C

Differential pressure

36.2 Pa/cm² (± 1.9) Pa/cm²

-

<60 Pa/cm²

✓ Pass

Complete test data reported at Annex.

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Signed for and on behalf of Eurofins Textile Testing Spain:

Report electronically validated by

Axel Ferrando

Physical-Mechanical Lab Manager

EXPLANATORY NOTE

- ◆ Test not covered by ENAC accreditation scope
- Test is subcontracted within Eurofins group and is accredited
- Test is subcontracted within Eurofins group and is not accredited
- Test is subcontracted outside Eurofins group and is accredited
- Test is subcontracted outside Eurofins group and is not accredited

N/A = Not Applicable

Eurofins Textile Testing Spain S.L.U is not responsible of the information supplied by the customer and reported as section "Information provided by the customer".

Eurofins General Sales Terms and Conditions Applied.

Results obtained refer only to samples, products or material received in Laboratory, as described in section "Sample information" and tested in conditions shown in present report.

Test uncertainties not reported are at customer disposal, for those tests in which it is possible to evaluate the test uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, which for a normal distribution provides a level of confidence of approximately 95%.

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If you happen to have any comments, please do it by sending email to textile_spain@eurofins.com and referring to this report number.

End Of Report

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ENAC is signatory of EA and ILAC Multilateral Agreement for testing
Activities not covered by ENAC accreditation are marked with ◆○●□■

METHOD FOR DETERMINATION OF BREATHABILITY (DIFFERENTIAL PRESSURE)

Test Method: EN 14683: 2019+AC: 2019 Annex C

Number of test specimens: 5

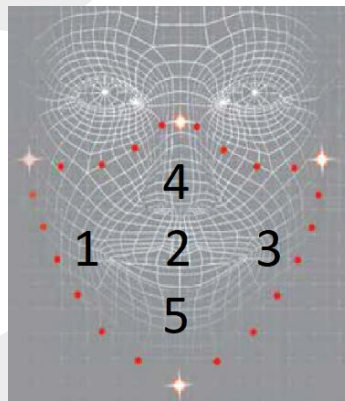
Number of test per specimen: 5

Sample area tested: Circular, diameter 2,5 cm

Tested area of the test sample: 4,9 cm²

Flow rate during testing: 8±0,25 l/min

General location of measurement areas: Representative of the overall surface.



Results

Specimen	Units (Pa)					Mean value (Pa)	ΔP (Pa/cm ²)
	Position 1	Position 2	Position 3	Position 4	Position 5		
1	172	170	178	168	161	170	34,7
2	176	177	173	154	160	168	34,3
3	185	188	189	177	181	184	37,6
4	188	187	186	174	173	182	37,1
5	191	193	185	176	173	184	37,5
						Mean Value	36,2
						Uncertainty	± 1,9

Observation:

For thick and rigid masks the test method may not be suitable as a proper seal cannot be maintained in the sample holder.

Operating requirements for surgical masks based on EN 14683: 2019+AC: 2019 standard

TEST	TYPE I	TYPE II	TYPE IIR
Bacterial filtration efficiency (BFE), (%)	≥ 95	≥ 98	≥ 98
Differential pressure (Pa/cm ²)	< 40	< 40	< 60
Splash resistance pressure (kPa)	Not required	Not required	≥ 16
Microbial cleanliness (CFU/g)	≤ 30	≤ 30	≤ 30