

Analytical Report Nr.

AR-20-YL-005289-01

Sample code Nr.

560-2020-00005800

Date

08/09/2020

**ANALYTICAL REPORT****Client Information**

Eurofins Medical Device Testing  
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KellyConner@eurofins.com  
For the attention of Kelly Conner

**Sample Information**

**Order Code:** EUAA70-00008016  
**Reception Date:** 2-Sep-2020  
**Analysis Starting Date:** 2-Sep-2020  
**Analysis Ending Date:** 8-Sep-2020  
**Sample described as:** Masks

**Information provided by the customer:**

**Client Reference:** DFM3L  
**Sample Description:**  
**Customer requirements:** No requirements  
**Purchase Order Number:**

**Decision rule** Not applicable. **Batch** Not provided

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## SAMPLE PICTURE



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**CONCLUSION:**

TEST PROPERTY	PASS	FAIL	REMARKS
<b>Breathability (Differential Pressure)</b> EN 14683:2019+AC:2019 Annex C			
A - Mask			REFER RESULT

**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	Green	---

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MASKS TESTING

CAS No.

RESULTS

UNC.

LOQ

GUIDELINES

**Analyses on:A - Mask****Breathability (Differential Pressure)**

Analysis Ending Date: 08/09/2020

EN 14683:2019+AC:2019 Annex C

Differential pressure

49.4 Pa/cm<sup>2</sup>

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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

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**EXPLANATORY NOTE**

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- ◆ 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

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Eurofins General Sales Terms and Conditions applied.

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report.

Test uncertainties not reported are at customer disposal.

If you happen to have any comments, please do it by sending email to [textile\\_spain@eurofins.com](mailto:textile_spain@eurofins.com) and referring to this report number.

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**End Of Report**

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[www.eurofins.com/tex](http://www.eurofins.com/tex)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

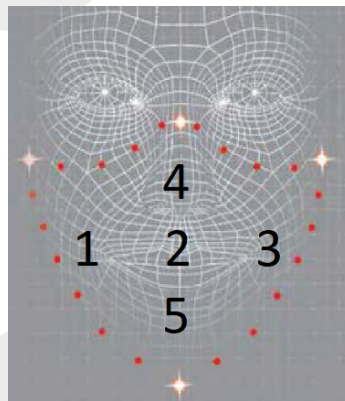
Number of test per specimen: 5

Sample area tested: Circular, diameter 2,5 cm

Tested area of the test sample: 4,9 cm<sup>2</sup>

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 <sup>2</sup> )
	Position 1	Position 2	Position 3	Position 4	Position 5		
1	262	265	271	285	215	260	53,0
2	218	238	205	232	217	222	45,3
3	236	268	275	225	205	242	49,3
4	246	275	219	294	203	247	50,5
5	267	235	208	276	207	239	48,7
						<b>Mean Value</b>	<b>49,4</b>
						<b>Uncertainty</b>	<b>± 2,7</b>

**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**

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