Analytical Report Nr.	AR-21-YL-000842-01
Sample code Nr.	560-2021-00000765
Date	28/01/2021

ANALYTICAL REPORT

Client Information

Eurofins Polska Sp. z o.o.
ul. Księcia Ziemowita 53 blok 3A lok. 4
WARSZAWA POLAND

NataliaPapaja-Liczberska@eurofins.com
For the attention of Natalia Papaja-Liczberska

Sample Information

Order Code:	EUAA70-00010267
Reception Date:	22-Jan-2021
Analysis Starting Date:	22-Jan-2021
Analysis Ending Date:	28-Jan-2021
Sample code Nr.	560-2021-00000765
Sample described as:	Masks

Requirements and decision rule

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

Information provided by the customer*

Client Reference:	720-2021-00012752
Sample Description:	Biomask type II , Przedsiębiorstwo Produkcyjno-Handlowo-Usługowe "ADRIANNO-DAMIANII" Eksport-Import Leon Kajfasz
Purchase Order Number:	
Batch	Not provided

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SAMPLE PICTURE

Eurofins Textile Testing Spain, S.L.U.
Calle Germán Bernácer, 4
03203 Elche
SPAIN
Phone+34 966 299 638
www.eurofins.com/tex

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CONCLUSION:

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

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MASKS TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES

Analyses on:Mask

Breathability (Differential Pressure)

Analysis Ending Date: 28/01/2021

EN 14683:2019+AC:2019 Annex C

Differential pressure	39.8 Pa/cm²	(± 1.6) Pa/cm²	-	<40 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

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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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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

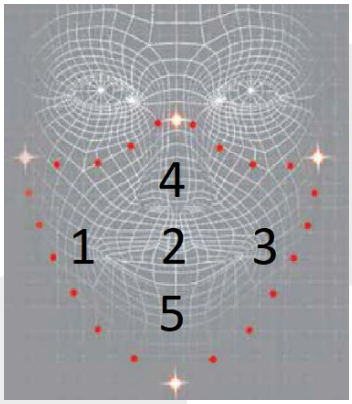
Tested area of the test sample: 4,9 cm^2

Flow rate during testing: 8±0,6 l/min

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

Conditioning: Tª between 16,7ºC and 26ºC. RH between 82,8% and 88% during at least 4 h.

Airflow direction during testing: From the inner layer to the outer layer.



Results

Specimen	Units (Pa)						ΔP (Pa/cm^2)
	Position 1	Position 2	Position 3	Position 4	Position 5	Mean value (Pa)	
1	197	192	175	180	177	184	37,6
2	201	183	187	198	177	189	38,6
3	229	191	222	197	181	204	41,6
4	197	189	196	201	165	190	38,7
5	225	206	199	210	202	208	42,5
						Mean Value	**39,8**
						Uncertainty	**± 1,6**

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