

Job No./Report No: 21-001936

Date: 03/03/2021

Client: Rcfil Non-TEX, S.L.U.

Code: CL-1584

Address: Cr/Camposancos,52 VIGO PONTEVEDRA ESPAÑA

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The following sample was (were) submitted and identified by the client as:

Job no Report No.:	21-001936
Receiving Date:	17/02/2021
Test Start Date:	18/02/2021
Test End Date:	03/03/2021
Sample description:	MASK

Serie :

Batch No.:

Reference No.: **MELTBLOWN 25g/m2 BLANCO**

Composition indicated: **polipropileno**

SUMMARY OF TEST CONCLUSIONS

SOP description	Conclusions
SOP 342- Bacterial Filtration Efficiency (BFE) - (Test subcontracted to an accredited laboratory)	Pass
SOP106 - Determination of breathability (Differential Pressure) by UNE-EN 14683 annex C - Original	Pass

Sample Tested



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SOP 342- Bacterial Filtration Efficiency (BFE) - (Test subcontracted to an accredited laboratory)

ID	ID AMSLab	Description	Conclusion
2	S-210218-00184	SAMPLE WHITE (ORIGINAL) - 1 LAYER	Pass

	CAS	S-210218-00184
Test 1: Bacterial Filtration Efficiency		98.5
Test 1: Number of Bacteria		44
Test 2: Bacterial Filtration Efficiency		98.1
Test 2: Number of Bacteria		56
Test 3: Bacterial Filtration Efficiency		98.1
Test 3: Number of Bacteria		56
Test 4: Bacterial Filtration Efficiency		98.3
Test 4: Number of Bacteria		50
Test 5: Bacterial Filtration Efficiency		98.4
Test 5: Number of Bacteria		48

Test Method: EN 14683:2019+AC:2019 (TS EN 14683+AC:2019) Annex-B / Medical Face Masks - Requirements and Test Methods

Requirements by specifications:

Spanish specification UNE 0064:2020: $\geq 95\%$

Spanish specification UNE 0065:2020: $\geq 90\%$

European specification CWA 17553:2020: Level $\geq 90\%$ and

European specification CWA 17553:2020: Level $\geq 70\%$

Other requirements:

- Surgical Mask type I by UNE-EN 14683: $\geq 95\%$

- Surgical Mask type II by UNE-EN 14683: $\geq 98\%$

- Surgical Mask type IIR by UNE-EN 14683: $\geq 98\%$

Report unit Bacterial Filtration Efficiency = %

Report unit Number of Bacteria = cfu/mL

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: 10x10 cm²

Microorganism: Staphylococcus aureus ATCC 6538

Bacterial concentration (cfu/ml): 5x10⁵ cfu/ml

Incubation conditions: 24 hour, 35C \pm 2C

Positive control sample average of number of Bacteria (C): 3.0x10³ cfu/ml

(* Test subcontracted and accredited laboratory (EKOTEKS LABORATUVAR VE GÖZETM HZMETLER A. .) for medical mask for tests (EN 14683). Results in subcontracted report number: 21007194

The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.

EKOTEKS LABORATUVAR VE GÖZETM HZMETLER A. . Denedy Laboratuvar, is accredited by TURKAK under registration number (AB-

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0583-T) for ISO 17025:2017 as test laboratory.

SOP106 - Determination of breathability (Differential Pressure) by UNE-EN 14683 annex C - Original

ID	ID AMSLab	Description	Conclusion
1	S-210218-00183	SAMPLE WHITE (ORIGINAL) - 1 LAYER	Pass

	CAS	S-210218-00183
Average Differential pressure (Pa/cm ²)		25
Value 1 Differential pressure (Pa/cm ²)		25
Value 2 Differential pressure (Pa/cm ²)		26
Value 3 Differential pressure (Pa/cm ²)		26
Value 4 Differential pressure (Pa/cm ²)		25
Value 5 Differential pressure (Pa/cm ²)		24

Notes:

Note 1: Applied standard UNE-EN 14683:2019+AC:2019 Annex C for breathability (Differential Pressure)

Note 2: For requirements: Spanish Specification UNE 0064-1, 0064-2, 0065 and European Specification CWA 17553

Note 3: Size of test specimen: 4.9 cm²

Note 4: Tested area of the test specimen: 2.5 cm

Note 5: Flow of air: (8 ± 0.2) l/min

Note 6: Report Unit: Pa and P (Pa/cm²)

Note 7: Number of samples tested: 5 / Number of measurements: 5

Note 8: Conditioned samples: 4 hours at 21 ± 5 °C and 85 ± 5 HR

Note 9: n.a. = not applicable

Requirements by specifications:

- Non-reusable Hygienic Mask by UNE 0064-1-2: < 60 Pa/cm²
- Reusable Hygienic Mask by UNE 0065: < 60 Pa/cm²
- European specification CWA 17553:2020: <= 70 Pa/cm²

Other requirements:

- Surgical Mask type I by UNE-EN 14683: < 40 Pa/cm²
- Surgical Mask type II by UNE-EN 14683: < 40 Pa/cm²
- Surgical Mask type IIR by UNE-EN 14683: < 60 Pa/cm²

Specific Notes:

(**) The result is out of specifications

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Issue Date: 03/03/2021

Signed: Manuel Lolo


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Applied Mass Spectrometry Laboratory S.L.
C.I.F. B - 27.380.914

General Manager

Signed: Pablo Perez


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Chemical Lab Manager

Signed: Esteban Ramirez


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Physical Lab Manager

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