

TEST REPORT

Job No./Report No: 20-005246

Date: 26/06/2020

Client: B-MASK Code: CL-0838

Address: ACRA BLUE sl

Tel:0034 933118800

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

 Serie :
 Receiving Date: 01/06/2020

 Batch No.:
 Test Start Date: 03/06/2020

Reference No.: **TEJIDO ART. TEC 7191 BLANCO** Test End Date: **26/06/2020**

Composition indicated: 80%PES,20%PA Sample description: RAW MATERIAL MASKS

SUMMARY OF TEST CONCLUSIONS

SOP description	Conclusions
SOP305 - Change of appearance after washing (Garments and fabrics)	See Results
SOP 342- Bacterial Filtration Efficiency (BFE)	See Results
SOP 342- Bacterial Filtration Efficiency (BFE) - After Washing	See Results
SOP106 - Determination of breathability (Differential Pressure) - Original	See Results
SOP106 - Determination of breathability (Differential Pressure) - After Washing	See Results

Sample Tested



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SOP305 - Change of appearance after washing (Garments and fabrics)

ID 9	S-200619-00133	FABRIC WHITE (25 WASHING CYCLES AT 60°C)	_	See Results
7	ID AMSLab	Description	I	Conclusion
<u> </u>	S-200617-00012	FABRIC WHITE (50 WASHING CYCLES AT 60°CI	I	See Results
3	ID AMSLab	Description	ı	Conclusion
ID	S-200603-00004	FABRIC WHITE (20 WASHING CYCLES AT 60°C)		See Results
	ID AMSLab	Description	ı	Conclusion

	CAS	S-200603-00004	S-200617-00012	S-200619-00133
Change of appearance after washing		No change	Slight change	Slight change
Number of cycles		20	50	25
Washing Temperature		60°c	50°c	60°c

Notes:

Note 1: Washing and drying process applied based on UNE-EN ISO 6330:2012

Note 2:

- Detergent: 20 gr of Commercial detergent/ Drying procedure: Air dry without tumble dry.
- n.a.: not applicable
- Requirement: No obvious change/colour/shape/appearance/seams/embroidery/trimmings/applications

Note 3 - Meaning of the grades of change of appearance:

- No change in appearance after washing and drying process
- Slight change in appearance after washing and drying process
- Moderate change in appearance after washing and drying process
- Severe change in appearance after washing and drying process

SOP 342- Bacterial Filtration Efficiency (BFE)

ID	IDAMSLab	Description	Conclusion
4	S-200603-00005	FABRIC WHITE (ORIGINAL	See Results

	CAS	S-200603-00005
Test 1: Bacterial Filtration Efficiency		92.3
Test 1: Number of Bacteria		215
Test 2: Bacterial Filtration Efficiency		92.1
Test 2: Number of Bacteria		221
Test 3: Bacterial Filtration Efficiency		91.9
Test 3: Number of Bacteria		226
Test 4: Bacterial Filtration Efficiency		91.8
Test 4: Number of Bacteria		230
Test 5: Bacterial Filtration Efficiency		92.1
Test 5: Number of Bacteria		221

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Notes:

Test Metod Ref: TS EN 14683:2019 Medical Face Masks.Requirements and Test Methods

Specifications applied:

Spanish specification UNE 0065:2020: .:: 90%

European specification CWA 17553:2020: Level .:: 90% and Level .:: 70%

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 Umin Test Flow Time:2 minute Sample Sizes:10x10 cm2

Microorganism:Staphylococcus aureus ATCC 6538 Bacterial concentration (cfu/ml) :5x10E5 cfu/ml Incubation conditions: 24 hour, 35C ± 2C

Positive control sample average of number of Bacteria (C): 2.8x10E3 cfu/ml

(*) Test subcontracted. Results in subcontracted report number: 20018261

SOP 342- Bacterial Filtration Efficiency (BFE) - After Washing

ID	IDAMSLab	Description	Conclusion
5	S-200603-00006	FABRIC WHITE (AFTER 20 WASHING CYCLES AT 60°C)	See Results
ID	IDAMSLab	Description	Conclusion
8	S-200617-00013	FABRIC WHITE (AFTER 50 WASHING CYCLES AT 60°C)	See Results
ID	IDAMSLab	Description	Conclusion
11	S-200619-00135	FABRIC WHITE (AFTER 25 WASHING CYCLES AT 60°C)	See Results

	CAS	S-200603-00006	S-200617-00013	S-200619-00135
Test 1: Bacterial Filtration Efficiency		85.2	80.0	83.4
Test 1: Number of Bacteria		415	425	465
Test 2: Bacterial Filtration Efficiency		85.0	80.1	83.5
Test 2: Number of Bacteria		421	421	462
Test 3: Bacterial Filtration Efficiency		84.8	81.0	82.9
Test 3: Number of Bacteria		426	403	478
Test 4: Bacterial Filtration Efficiency		84.6	80.9	82.9
Test 4: Number of Bacteria		430	405	480
Test 5: Bacterial Filtration Efficiency		85.0	80.7	83.6
Test 5: Number of Bacteria		421	410	460

Notes

Test Metod Ref: TS EN 14683:2019 Medical Face Masks.Requirements and Test Methods

Specifications applied:

Spanish specification UNE 0065:2020: .:: 90%

European specification CWA 17553:2020: Level .:: 90% and Level .:: 70%

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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 Umin Test Flow Time:2 minute Sample Sizes:10x10 cm2

Microorganism:Staphylococcusaureus ATCC 6538 Bacterial concentration (cfu/ml) :5x10E5 cfu/ml Incubation conditions: 24 hour, 35C \pm 2C

Positive control sample average of number of Bacteria (C): 2.8x10E3cfu/ml / 2.12x10E3 cfu/ml for sample S-200617-00013

(*) Test subcontracted. Results in subcontracted report number: 20018262

SOP106 - Determination of breathability (Differential Pressure) - Original

ID	IDAMSLab	Description	Conclusion
	S -200603- 00002	FABRIC WHITE {ORIGINAL	See Results

	CAS	S-200603-00002
Average Differential pressure (Pa/cm2)		15
Value 1 Differential pressure (Pa/cm2)		14
Value 2 Differential pressure (Pa/cm2)		15
Value 3 Differentialpressure (Pa/cm2)		16
Value 4 Differential pressure (Pa/cm2)		14
Value 5 Differential pressure (Pa/cm2)		15

Notes:

Note 1: Applied standard UNE-EN 14683:2019 and Specification UNE 0064-1, 0064-2 and 0065

Note 2: Size of test specimen: 4.9 cm2

Note 3: Tested area of the test specimen: 2.5 cm

Note 4: Flow of air: (8 \pm 0.2) I/min

Note 5: Velocity of 272 l/m2/s or 272 mm/s Note 6: Report Unit: Pa and P (Pa/cm2)

Note 7: Number of measurements: 5

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

Note 9: n.a. = not applicable

Requirement by standard:

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

Specific Notes:

(**) The result is out of specifications

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SOP106 - Determination of breathability (Differential Pressure) - After Washing

ID	IDAMSLab	Description	Conclusion
2	S-200603-00003	FABRIC WHITE (AFTER 20 WASHING CYCLES AT 60°C)	See Results
ID	IDAMSLab	Description	Conclusion
6	S-200617-00011	FABRIC WHITE (AFTER 50 WASHING CYCLES AT 60°C)	See Results
ID	IDAMSLab	Description	Conclusion
10	S-200619-00134	FABRIC WHITE (AFTER 25 WASHING CYCLES AT 60°C)	See Results

	CAS	S-200603-00003	S-200617-00011	S-200619-00134
Average Differential pressure (Pa/cm2)		13	10	11
Value 1 Differential pressure (Pa/cm2)		12	11	13
Value 2 Differential pressure (Pa/cm2)		11	9	11
Value 3 Differential pressure (Pa/cm2)		12	10	11
Value 4 Differential pressure (Pa/cm2)		11	9	10
Value 5 Differential pressure (Pa/cm2)		13	9	10

Notes:

Note 1: Applied standard UNE-EN 14683:2019 and Specification UNE 0064-1, 0064-2 and 0065

Note 2: Size of test specimen: 4.9 cm2

Note 3: Tested area of the test specimen: 2.5 cm

Note 4: Flow of air: (8 \pm 0 . 2) I/min

Note 5: Velocity of 272 l/m2/s or 272 mm/s

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

Note 7: Number of measurements: 5

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

Note 9: n.a. = not applicable

Requirement by standard:

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

Specific Notes:

(**) The result is out of specifications

Issue Date: 26/06/2020

Signed: Manuel Lolo Signed: Pablo Perez Signed: Esteban Ramirez



General Manager

Chemical Lab Manager



Physical Lab Manager

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