

Job No./Report No: 20-004593

Date: 16/06/2020

Client: Textil Manly SA

Code: CL-0838

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

Serie :	Job no Report No.: 20-004593
Batch No.:	Receiving Date: 07/05/2020
Reference No.: TEC 7191 ESTAMPADO ROSA	Test Start Date: 12/05/2020
Composition indicated: UNKNOWN	Test End Date: 29/05/2020
	Sample description: RAW MATERIAL

This test report is a modification of issued in the date "29/05/2020". Change: Report without application of specific requirements for international market. Cause: Customer's request.

SUMMARY OF TEST CONCLUSIONS

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

Sample Tested



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- Reported results do not include uncertainties (but are available for the customer).
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SOP305 - Change of appearance after washing (Garments and fabrics)

ID	ID AMSLab	Description	Conclusion
2	S-200508-00006	FABRIC MULTICOLOR (30 WASHING CYCLES AT 60°C)	See Results

	CAS	S-200508-00006
Change of appearance after washing		Slight change
Number of cycles		30
Washing Temperature		60°C

Notes:

Note 1: Washing and drying process applied based on UNE-EN ISO 6330:2001

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) - After Washing

ID	ID AMSLab	Description	Conclusion
3	S-200508-00007	FABRIC MULTICOLOR (AFTER 30 WASHING CYCLES AT 60°C)	See Results

	CAS	S-200508-00007
Test 1: Bacterial Filtration Efficiency		84.2
Test 1: Number of Bacteria		285
Test 2: Bacterial Filtration Efficiency		84.7
Test 2: Number of Bacteria		276
Test 3: Bacterial Filtration Efficiency		85.0
Test 3: Number of Bacteria		270
Test 4: Bacterial Filtration Efficiency		85.2
Test 4: Number of Bacteria		266
Test 5: Bacterial Filtration Efficiency		85.6
Test 5: Number of Bacteria		260

Notes:

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

Specifications:

- UNE 0065: > 90%

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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 an 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, 35°C ± 2°C

Positive control sample average of number of Bacteria (C): 1.8x10³ cfu/ml

(*) Test subcontracted. Results in subcontracted report number: 20015435

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

ID	ID AMSLab	Description	Conclusion
1	S-200508-00005	FABRIC MULTICOLOR (AFTER 30 WASHING CYCLES AT 60°C)	See Results

	CAS	S-200508-00005
Average Differential pressure (Pa/cm ²)		16
Value 1 Differential pressure (Pa/cm ²)		17
Value 2 Differential pressure (Pa/cm ²)		16
Value 3 Differential pressure (Pa/cm ²)		16
Value 4 Differential pressure (Pa/cm ²)		16
Value 5 Differential pressure (Pa/cm ²)		16

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 ± 0.2) l/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 ± 5 °C and 85 ± 5 HR

Note 9: n.a. = not applicable

Requirement by standard:

- Non-reusable Hygienic Mask by UNE 0064-1-2: < 60 Pa/cm²

- Reusable Hygienic Mask by UNE 0065: < 60 Pa/cm²

Specific Notes:

(**) The result is out of specifications

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Date: 16/06/2020

Issue Date: 16/06/2020

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Physical Lab Manager

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