

Test Report No.: 248131784-01

Page 1 of 5

Client: DML CREATION

Contact Information: 800 Price Street , St.Jerome , Quebec , Canada , J7Y 4E3

Sample Description as Declared:

No. Of Sample : 02
Sample Name : CIVILIAN MASK
Item : CIVIL
Fabric : 100% Woven Polyester
Fabric weight : -
Fiber Content : -
Colour : White
End Uses : -
Age Ranges : -
Style Name : -
Standard : Test parameters & components requested by customer
Buyer's Name : -
Manufacturer's Name : -
Ref. :-
Applicant's Provided Care Instruction/Label: -

Sample Receiving date: 2020-04-22

Testing Period: 2020-04-27 to 2020-05-12

For and on behalf of
TÜV Rheinland Vietnam Co., Ltd.



2020-05-14
Date

Huynh Thi Thuong Thao / Project Manager
Name/Position

*Test result is drawn according to the kind and extent of tests performed.
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

Test Report No.: 248131784-01*Page 2 of 5***Conclusion:**

Water Repellency	DATA		Refer to page 3
Transmittance or Blocking of Ultraviolet Radiation	DATA		Refer to page 3
Antibacterial Activity	DATA		Refer to page 4

Material List:

Material No.	Material	Color	Location	Remark
M001	Textile	White	Fabric sheet (Outer layer)	Item 1
M002	Textile	White	Antibacterial Inner layer of Face mask	Item 2

1. Water Repellency

Test method : ISO 4920 : 2012

M001
3

As received

Spray Rating :

- 0 Complete wetting of the entire face of the specimen
- 1 Complete wetting of the entire face of the specimen face beyond the spray points
- 2 Partial wetting of the specimen face beyond the spray points
- 3 Wetting of specimen face at spray points
- 4 Slight random sticking or wetting of the specimen face
- 5 No sticking or wetting of the specimen face

2. Transmittance or Blocking of Ultraviolet Radiation

Test method : AATCC 183: 2014

Test Condition : Illuminant: Pre-aligned Tungsten-halogen and Deuterium lamp

Test Instrument: UV-VISIBLE-NIR Spectrophotometer (PerkinElmer Lambda 950)

	<u>M001</u>	
<u>As received</u>	<u>Dry</u>	<u>Wet</u>
UPF	22	21
T(UV-A) (%)	7.3	7.7
T(UV-B) (%)	3.9	4.1
T(UV-R) (%)	6.3	6.6
UV-A (%)	92.7	92.3
UV-B (%)	96.1	95.9
UV-R (%)	93.7	93.4

*Refer to Australian clothing standard (AS/NZS 4399:2017)

<u>UPF</u>	<u>Effective UV Transmission</u>	<u>Protection Category</u>
15	6.7 %	Minimum
30	3.3 %	Good
50,50+	2.0%	Excellent

* T(UV-A): The UV-A Transmittance (315-400nm) * T(UV-B): The UV-B-range Transmittance (280-315nm)

* T(UV-R): The UV-R Transmittance (280-400nm) * UV-A: The Percent Blocking (315-400nm)

* UV-B: The Percent Blocking (280-315nm) * UV-R: The Percent Blocking (280-400nm)

Remark:

The test has been conducted by an accredited subcontractor

Test Report No.: 248131784-01

Page 4 of 5

3. Antibacterial Activity

Test method: Reference to AATCC 100: 2012; Sterilization condition: None

M002		Result (as CFU/Test Specimen – 4.8 ± 0.1 cm)		% reduction (calculated from bacteria at 0h and residual bacteria at 24h)
<i>Escherichia coli</i> (ATCC 8739)	Concentration of spiked bacteria (CFU/mL)	Average of the number of viable cells of test bacteria per Test Specimen		
		0h	24h	
As received	1.4 x 10 ⁵	1.2 x 10 ⁵	2.0 x 10 ²	99.83

M002		Result (as CFU/Test Specimen – 4.8 ± 0.1 cm)		% reduction (calculated from bacteria at 0h and residual bacteria at 24h)
<i>Staphylococcus aureus</i> (ATCC 6538)	Concentration of spiked bacteria (CFU/mL)	Average of the number of viable cells of test bacteria per Test Specimen		
		0h	24h	
As received	1.1 x 10 ⁵	5.1 x 10 ⁴	2.0 x 10 ²	99.61

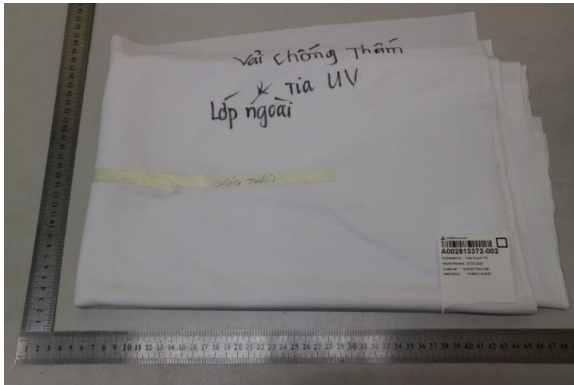
Explanation:

CFU: Colony Forming Unit

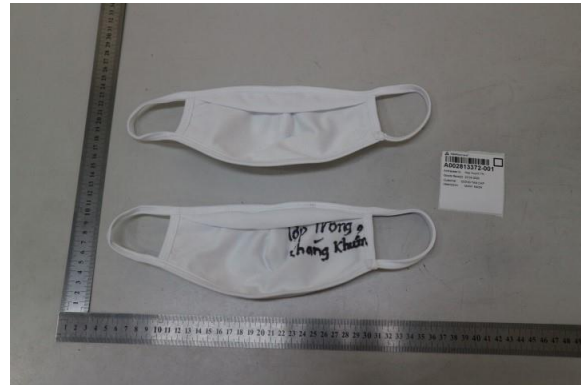
Remark:

The test was performed on the Antibacterial inner layer according to customer's request.

Sample Photos



Item 1_LAB I.D.: A002813372-002



Item 2_LAB I.D.: A002813372-001

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