

Test Report

SL52035260965701TX

Date: July 16, 2020

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MULTIBRANDS INTERNATIONAL LTD
ROYDS HALL, ROYDS HALL LANE, BRADFORD, ENGLAND BD12 0EJ

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)3 Ply Face mask (Claimed Type I)

Style No. : FB1RM-U

Composition : (A)Non-woven fabrics

Sample Color : (A)Blue outside and white inside

Buyer : MULTIBRANDS INTERNATIONAL LTD

Order No. : PO12170

Manufacturer : MULTIBRANDS INTERNATIONAL LTD

Country of Destination : United Kingdom

Roll/ Lot No. : PO12170

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Jun 18, 2020

Testing Period : Jun 28, 2020 - Jul 16, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Comment:

EN 14683:2019+AC:2019 Medical Face Masks-Requirements and Test Methods	(A)
Clause 5.2 Performance Requirement	
Clause 5.2.2 Bacterial filtration efficiency (BFE)	M
Clause 5.2.3 Breathability	M
Clause 5.2.4 Splash Resistance	EXCLUDED
Clause 5.2.5 Microbial Cleanliness	M
Clause 5.2.6 Biocompatibility	EXCLUDED

Remark: M=Meet EN 14683:2019+AC:2019 Performance Requirement (Type I)
F=Below EN 14683:2019+AC:2019 Performance Requirement (Type I)

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Sara Guo (Account Executive)

Dongjing Liu / Hailian Xuan (Authorized Signatory)



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Test Result

EN 14683:2019+AC:2019 Medical Face Masks-Requirements and Test Methods

Clause 5.2 Performance Requirement

Clause 5.2.2 Bacterial Filtration Efficiency (BFE)
(EN 14683:2019+AC:2019 Annex B)

Sample: A
 Test Side : Inside
 Test Area : Approximately 60 cm²
 Flow Rate : 28.3 L/min
 Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H.
 Dimensions of test specimen : 170 mm x 160 mm
 Positive Control Average : 2079 CFU
 Negative Monitor Count : < 1 CFU
 Mean Particle Size : 3.0 ±0.3µm
 Test bacteria : Staphylococcus aureus ATCC 6538

Test Item	Specimen No.	Result
Bacterial Filtration Efficiency (BFE)	1	99.9%
	2	99.9%
	3	99.9%
	4	99.9%
	5	99.9%

Remark:

- 1) Performance Requirement: Type I ≥95%, Type II ≥98%, Type IIR ≥98%
- 2) The number of specimens that shall be tested is minimum 5, but can be greater and shall be increased if necessary to allow for an AQL(Acceptable Quality Level) of 4%.



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Clause 5.2.3 Breathability

(EN 14683 :2019+AC:2019 Annex C)

Sample: A
 Test Side : Randomly test in different location (1 around and 4 away from the centric point) on each of the 5 masks
 Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H.
 Test Area : 4.9 cm²
 Flow Rate : 8 l/min

Specimen No.	Test Area No.	Different Pressure for each tested area (Pa/cm ²)	The average value for each test specimen (Pa/cm ²)
1	1-1	28.8	33
	1-2	31.1	
	1-3	38.6	
	1-4	34.5	
	1-5	32.3	
2	2-1	39.5	31
	2-2	28.5	
	2-3	25.5	
	2-4	30.0	
	2-5	29.9	
3	3-1	36.2	34
	3-2	37.8	
	3-3	30.7	
	3-4	28.6	
	3-5	39.0	
4	4-1	35.6	32
	4-2	29.3	
	4-3	29.8	
	4-4	31.3	
	4-5	32.2	
5	5-1	36.0	31
	5-2	27.1	
	5-3	30.0	
	5-4	31.7	
	5-5	31.6	

Remark:

- 1) Performance Requirement: Type I<40 Pa/cm², Type II<40 Pa/cm², Type IIR<60 Pa/cm²
- 2) The number of specimens that shall be tested is minimum 5, but can be greater and shall be increased if necessary to allow for an AQL(Acceptable Quality Level) of 4%.



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Clause 5.2.5 Microbial Cleanliness

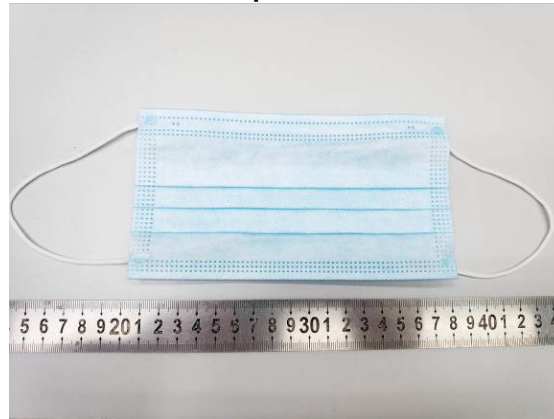
(EN 14683:2019+AC:2019 Annex D and EN ISO 11737-1:2018)

Sample: A

Test Specimen#	Mask Weight(g)	Total Bioburden, (CFU/mask)	Total Bioburden, (CFU/g)
1#	3.52	9	2.56
2#	3.58	21	5.87
3#	3.56	81	22.75
4#	3.54	105	29.66
5#	3.51	90	25.64

Remark: Performance Requirement: Type I ≤ 30 CFU/g, Type II ≤ 30 CFU/g, Type IIR ≤ 30 CFU/g

Sample Photo



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report



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