

Page 1 of 4

refer only to the

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

Sample Description	:	(A)Surgical mask
SGS Internal Ref No. Style No. Sample Color Manufacturer Country of Origin Lot No./Batch No.	: : : : : : : : : : : : : : : : : : : :	SHHL2004513394MD Mask with earloops 17.5*9.5 (A)blue China Not provided
Proposed Care Instruction	:	/
Test Performed	:	Selected test(s) as requested by applicant
Sample Receiving Date Testing Period	:	Apr 29, 2020 Apr 29, 2020 - Jun 23, 2020
Test Result(s)	:	Unless otherwise stated the results shown in this test report refer only to t sample(s) tested, for further details, please refer to the following page(s).

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

Sara Guo (Account Executive)



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SL52025246245601TX

Date:June 23,2020

Test Result

<u>Standard Specification for Performance of Materials Used in Medical Face Masks</u> (ASTM F2100-19)

Section 6.1 Bacterial filtration efficiency (BFE)*

(ASTM F2101-19)					
Sample: A					
Conditioning Parameters	:	Minimum of 4 hours	s at 21±5°C ai	nd 85±5% R.H.	
Dimensions of test specimen	:	~167 mm x ~175 m	m		
Test Area	:	~60 cm ²			
Test Side	:	Inside			
Flow Rate	:	28.3 l/min			
Positive Control Average	:	2.5 x 10 ³ CFU			
Negative Monitor Count	:	< 1 CFU			
	1#	2#	3#	4#	5#
(REE) %	99.7	2# 99.7	3# 99.9	4# 99.8	э# >99.9
(BFE), %	99.1	99.7	33.9	33.0	>99.9

Remark: Performance Requirement: Level 1≥95%, Level 2≥98%, Level 3≥98% * Tests denoted with an * in this test report have been subcontracted to another ISO 17025 Accredited Laboratory.

Section 6.1 Differential pressure

(EN 14683 :2019+AC :2019 Sample: A	Annex C, Fl	ow rate 8 l/min	n)		
Test number and location Conditioning Parameters Test Area Flow Rate		um of 4 hours a 1 ²	ach specimen at 21±5°C and a	· ,	
	1#	2#	3#	4#	5#
Differential pressure △P (mm H2O/cm ²)	4.6	4.5	4.6	4.5	4.7

Remark: Performance Requirement: Level 1<5.0 mmH2O/cm², Level 2<6.0 mmH2O/cm², Level 3<6.0 mmH2O/cm²

Section 6.1 Sub-micron particulate filtration efficiency(PFE)*

	i particulate i				
(ASTM F2299)	-				
Sample: A					
Area Tested	: 91	1.5 cm ²			
Test Side	: In	side			
Particle Size	: 0.	1 µ m			
Standard Deviation	: 0.	089			
	1#	2#	3#	4#	5#
(PFE), %	99.68	99.78	99.65	99.79	99.58

Remark: Performance Requirement: Level 1≥95%, Level 2≥98%, Level 3≥98%

* Tests denoted with an * in this test report have been subcontracted to another ISO 17025 Accredited Laboratory.



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Section 6.1 Resistance to Penetration by Synthetic Blood

(ASTM F1862/F1862M-2017)

Pressure 120mmHg

Penetration	on inside sur	face					
1#	2#	3#	4#	5#	6#	7#	8#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
9#	10#	11#	12#	13#	14#	15#	16#
Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass
17#	18#	19#	20#	21#	22#	23#	24#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
25#	26#	27#	28#	29#	30#	31#	32#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Number of P	ass:		31				
Overall resul	t:		Acceptable				

Remark:

- 1) Performance Requirement Level 1 Barrier: 80mmHg, Level 2 Barrier: 120mmHg, Level 3 Barrier: 160mmHg
- 2) Distance of the medical face mask target area surface to the tip of cannula is 30.5cm.
- 3) Condition and Test temperature (21±5)° C, relative humidity (85±5)%
- 4) An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show pass results

Section 6.2 Flammability

(16 CFR Part 1610 - 2008)

<u>Sample</u>	:	А
Fabric Surface	:	Smooth
Test Specimen Direction	:	Length

	As Received
	Burn Code
(1)	IBE
(2)	IBE
(3)	IBE
(4)	IBE
(5)	IBE

Flammability Classification: Class 1

Requirement: Class 1 for Level 1/ Level 2/ Level 3

Conclusion: Pass

Remarks

Class 1 Normal Flammability Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.

Burn Code Description:

IBE = Ignited, but extinguished



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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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