

Test Report

Number: GZHT02315783

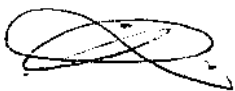
Report Ref:	GZHT02315783		
Date Received:	Jul 16, 2020	Date Issued:	Jul 29, 2020

Company Name:	CHAOZHOU CECILIA TECHNOLOGY CO., LTD		
Address:	BUILDING A, XIAKENG, YINTAN WENCI, CHAOZHOU, GUANGDONG		
Contact Name:	kevin		

The Following Sample Was Submitted And Identified By/On Behalf Of The Applicant As:	
End Uses	: Medical Face Mask
Ratings	: Level 2
Sample Name	: Disposable Face Mask
Size	: Adult 17.5cm*9.5cm
Colour	: Blue
Standard	: ASTM F2100-19 ^{e1}
Date received/ Test Started	: Jul 16, 2020

Test was conducted on specific items, at our client's request.

Prepared And Checked By:
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



Lin Lin
General Manager

QIN / abbyqzeng



Page 1 Of 7

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房、

E201、E301、E401、E501、E601、E701、E801

Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,
Hengyun Building, 235 Kaifa Ave., Guangzhou

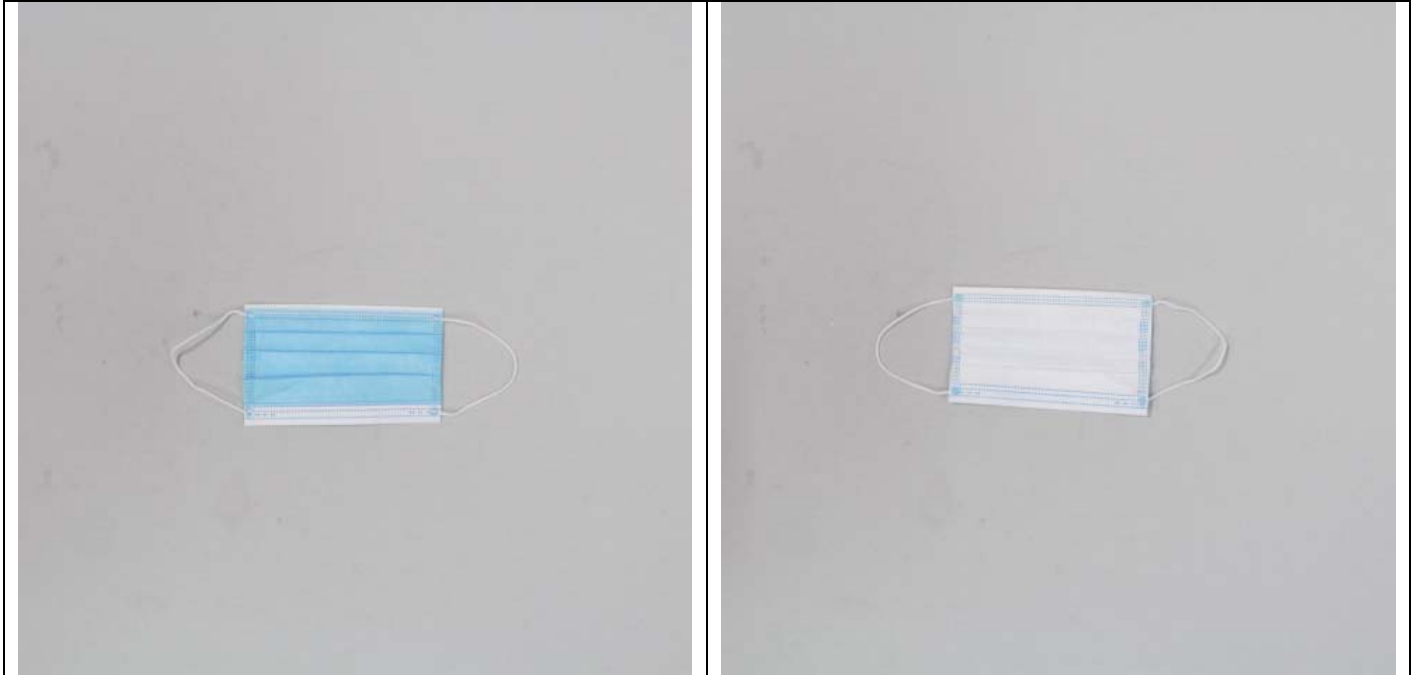
Economic & Technological Development District, Guangzhou, China

中国广州经济技术开发区开发大道235号恒运大厦3楼

Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730



Original Sample Photo



Prepared And Checked By:
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Lin Lin
General Manager

QIN / abbyqzeng



Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房、03房

E201、E301、E401、E501、E601、E701、E801

Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663

Room 03, Hengyun Building, 235 Kaifa Ave., Guangzhou

Economic & Technological Development District, Guangzhou, China

中国广州经济技术开发区开发大道235号恒运大厦3楼

Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730



Test Report

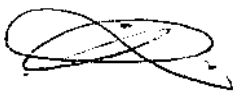
Number: GZHT02315783

Summary of testing:

With reference to following standard:
• ASTM F2100-19^{e1} Standard Specification for Performance of Materials Used in Medical Face Masks Level 2

Materials Used in The Submitted Sample Were Found To Comply With The Level 2 Requirements of ASTM F2100-19^{e1} with respect to Bacterial Filtration Efficiency (BFE), Sub-Micron Particulate Filtration, Resistance to Penetration by Synthetic Blood and Flammability Test.

Prepared And Checked By:
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



Lin Lin
General Manager



QIN / abbyqzeng

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房、01房

E201、E301、E401、E501、E601、E701、E801

Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,
Hengyun Building, 235 Kaifa Ave., Guangzhou

Economic & Technological Development District, Guangzhou, China

中国广州经济技术开发区开发大道235号恒运大厦3楼

Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730



Test Report

Number: GZHT02315783

Tests Conducted (As Requested By The Applicant)

- 1 Resistance to Penetration by Synthetic Blood (ASTM F2100-19^{e1}, Section 9.4, Testing Refer to ASTM F1862/F1862M-17):
 Synthetic Blood Surface Tension: 0.042 N/m, Distance Between Blow Head Front End and Target Area: 300 mm, Artificial Blood Volumes: 2 mL, Test Pressure: 120 mmHg, Velocity: 550 cm/s, Use a Fixed Target.

<u>Tested Sample/Component</u>	<u>Result</u>	<u>Performance Requirement for Medical Face Mask</u> Pass Pressure at Level 2: 120mm Hg
Specimen (1)	No Penetration	
Specimen (2)	No Penetration	
Specimen (3)	No Penetration	
Specimen (4)	No Penetration	
Specimen (5)	No Penetration	
Specimen (6)	No Penetration	
Specimen (7)	No Penetration	
Specimen (8)	No Penetration	
Specimen (9)	No Penetration	
Specimen (10)	No Penetration	
Specimen (11)	No Penetration	
Specimen (12)	No Penetration	
Specimen (13)	No Penetration	
Specimen (14)	No Penetration	
Specimen (15)	No Penetration	
Specimen (16)	No Penetration	
Specimen (17)	No Penetration	
Specimen (18)	No Penetration	
Specimen (19)	No Penetration	
Specimen (20)	No Penetration	
Specimen (21)	No Penetration	
Specimen (22)	No Penetration	
Specimen (23)	No Penetration	
Specimen (24)	No Penetration	
Specimen (25)	No Penetration	
Specimen (26)	No Penetration	
Specimen (27)	No Penetration	
Specimen (28)	No Penetration	
Specimen (29)	No Penetration	
Specimen (30)	No Penetration	
Specimen (31)	No Penetration	
Specimen (32)	No Penetration	

QIN / abbyqzeng

Page 4 Of 7

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, 10/F, Hengyun Building, 235 Kaifa Ave., Guangzhou
 No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China Economic & Technological Development District, Guangzhou, China
 中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房 中国广州经济技术开发区开发大道235号恒运大厦3楼
 101、
 E201、E301、E401、E501、E601、E701、E801 Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730
 Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663



Test Report

Number: GZHT02315783

Tests Conducted (As Requested By The Applicant)

2 Flammability Test (ASTM F2100-19^{e1}, Section 9.5, Testing Refer to 16 CFR Part 1610 -2008):

<u>As Received</u>		
X	Plain Surface	Raised Surface
Burn Direction : <input checked="" type="checkbox"/> Length <input type="checkbox"/> Width		Requirement Class 1
Prelim Plain Surface :		
Length: IBE		
Width: -		
	Original* (seconds)	
1.	IBE	
2.	IBE	
3.	IBE	
4.	IBE	
5.	IBE	
6.	-	
7.	-	
8.	-	
9.	-	
10.	-	
Average : -		

Classification :	<input checked="" type="checkbox"/>	Class 1, Normal Flammability
	<input type="checkbox"/>	Class 2, Intermediate Flammability, Raised Surface
	<input type="checkbox"/>	Class 3, Rapid And Intense Burning
Explanation Of Flammability Results:		
IBE	Ignited but extinguished.	

* The disposable fabrics and garments need not to be refurbished in accordance with 16 CFR Part 1610.35 (a)(2).

QIN / abbyqzeng

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China
 中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房
 101、
 E201、E301、E401、E501、E601、E701、E801
 Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663

Hengyun Building, 235 Kaifa Ave., Guangzhou Economic & Technological Development District, Guangzhou, China
 中国广州经济技术开发区开发大道235号恒运大厦3楼
 Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730



Test Report

Number: GZHT02315783

Tests Conducted (As Requested By The Applicant)

3 Bacterial Filtration Efficiency (BFE)

As per ASTM F2100-19^{e1} Standard Specification for Performance of Materials Used in Medical Face Masks Section 9.1 and ASTM F2101-19 Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus.

Test Item	Results (%)					Performance Requirement for Medical Face Mask (%)
	Specimen (1)	Specimen (2)	Specimen (3)	Specimen (4)	Specimen (5)	
Bacterial Filtration Efficiency (BFE)	99.9	>99.9	>99.9	>99.9	>99.9	Level 2: ≥ 98

Remarks:

1. Biological Aerosol: *Staphylococcus aureus* (ATCC 6538).
2. Testing side: Outside of the test specimen was facing towards the challenge aerosol.
3. Test area: 78 cm²
4. Flow rate: 28.3 L/min
5. The average plate count results of the positive controls: 1.8*10³ CFU
6. The average plate count results of the negative controls: < 1 CFU
7. CFU = Colony Forming Unit

This test item was conducted in Caipin Road, Guangzhou Science City, GETDD, Guangzhou, Guangdong.

QIN / abbyqzeng

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

8/F Hengyun Building, 235 Kaifa Ave., Guangzhou
Economic & Technological Development District, Guangzhou, China

中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房

中国广州经济技术开发区开发大道235号恒运大厦3楼

E201, E301, E401, E501, E601, E701, E801

Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730

Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663



Test Report

Number: GZHT02315783

Tests Conducted (As Requested By The Applicant)

4 Sub-Micron Particulate Filtration (ASTM F2100-19^{e1}, Section 9.3, Testing Refer to ASTM F2299/F2299M-17):Particle size in aerosol: 0.1 µm, Aerosol: Polystyrene Latex Spheres (PSL), Test area: 100 cm², Airflow: 5.33 cm/s, Sampling time: 1 min.

<u>Tested Sample/Component</u>	<u>Result (%)</u>	<u>Performance Requirement for Medical Face Mask (%)</u>
Specimen (1)	99.6	Level 2: ≥ 98
Specimen (2)	99.7	
Specimen (3)	99.7	
Specimen (4)	99.6	
Specimen (5)	99.4	
Minimum Value	99.4	

Remark: The test was performed by an approved third party subcontractor laboratory

End of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. No copy of the test report(except for full text copy) shall be made without the written approval by Intertek.

QIN / abbyqzeng

Page 7 Of 7

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房

E201, E301, E401, E501, E601, E701, E801

Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663

8/F Hengyun Building, 235 Kaifa Ave., Guangzhou

Economic & Technological Development District, Guangzhou, China

中国广州经济技术开发区开发大道235号恒运大厦3楼

Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730

