

Test Report	No.: SHHL1602007863MD-02	Date: APR. 08, 2016	Page: 1 of 8
SHIJIAZHUANG HONGRA	AY GROUP CO., LTD		
SOUTH TONGDA RD., EA	AST DIST. JINZHOU CITY, HEBEI,	052260, CHINA	

DATE: APR. 06, 2016	ERSEDE THE TEST REPORT No.: SHHL1602007863MD-01 e submitted and identified by the client as:
Sample Description	: DISPOSABLE VINYL GLOVE
Style/ Item No.	: XS,S,M,L,XL
Country of Origin	: CHINA
Sample Receiving Date	: FEB. 29, 2016
Testing Period	: FEB. 29, 2016 TO MAR. 28, 2016
Test Performed	: SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested	: 1. EN 455-1:2000 MEDICAL GLOVES FOR SINGLE USE –
	PART 1: REQUIREMENTS AND TESTING FOR FREEDOM
	FROM HOLES
	2. EN 455-2: 2015 MEDICAL GLOVES FOR SINGLE USE -
	PART 2: REQUIREMENTS AND TESTING FOR PHYSICAL
	PROPERTIE
	3. EN 455-3: 2015 MEDICAL GLOVES FOR SINGLE USE—
	PART 3: REQUIREMENTS AND TESTING FOR BIOLOGICAL
	EVALUATION CLAUSE 4.4 & 4.6
Test Result(s)	: FOR FURTHER DETAILS, PLEASE REFER TO THE
	FOLLOWING PAGE(S)
Conclusion	: THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

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

udens

Vincent Feng Technical Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limitation to its to its to its Cilent's and this document does not exoeriate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CM.Doccheck@gss.com" 4th Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86) 400 960 9661 f (86-21) 6115 6899 www.sgsgroup.com.cn

t (86) 400 960 9661	f (86-21) 6115 6899	e sgs.china@sgs.com
	Member of the	SGS Group (SGS SA)



	Test Report	No.: SHHL1602007863MD-02	Date: APR. 08, 2016	Page: 2 of
--	-------------	--------------------------	---------------------	------------

Test Conducted:

1. EN 455-1:2000 Medical gloves for single use - part 1: Requirements and testing for freedom from holes

Number of test sample The type of gloves	:	200 Pieces examination/procedure gloves
Manufacturing batch code		
Batch size	:	1
Sample size	:	XS, S, M, L, XL
Number of non-conforming gloves Defects observed before testing Test Result	:	None No defects Pass

Clause	Test Items	Result	Note
5	Watertightness test for detection of holes		
5.1	Referee testing		# 1&2

2. EN 455-2: 2015 Medical gloves for single use - part 2: Requirements and testing for physical propertie

Number of test sample	:	91 Pieces
Туре	:	examination/procedure gloves
The manufacturing batch code	:	/
Size	:	XS, S, M, L, XL
Defects observed before testing	:	No defects
Test Result	:	Pass

Clause	Test Items	Result	Note
4	Dimensions	Pass	#3
5	Strength	Pass	#1&4
7	Labeling	Pass	/



Unless otherwise agreed in writing, this document is issue overleaf, available on request or accessible at http://www.sgs subject to Terms and Conditions for Electronic Documents Attention is drawn to the limitation of liability, indemnification advised that information contained hereon reflects the Comp Client's instructions, if any. The Company's sole responsib transaction from exercising all their rights and obligations u except in full, without prior written approval of the Compan appearance of this document is unlawful and offenders may results shown in this test report refer only to the sample(s) test	.com/en/Terms-and-Co at http://www.sgs.com/e n and jurisdiction issue pany's findings at the ti ility is to its Client and under the transaction d y. Any unauthorized al pe prosecuted to the ful led and such sample(s).	<u>nditions.aspx</u> and, for elec <u>in/Terms-and-Conditions/</u> iss defined therein. Any h me of its intervention on d this document does no locuments. This docume iteration, forgery or falsif lest extent of the law. Use are retained for 30 days o	tronic format documents, Terms-e-Document asox. older of this document is y and within the limits of it exonerate parties to a nt cannot be reproduced ication of the content or less otherwise stated the nly.	
Attention: To check the authenticity of testing /inspection	report & certificate, pl	ease contact us at telep	hone: (86-755) 8307 1443,	
or email: CN.Doccheck@sgs.com				
4 th Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233	t (86) 400 960 9661	f (86-21) 6115 6899	www.sgsgroup.com.cn	
中国・上海・徐汇区宜山路889号4号楼 邮编: 200233	t (86) 400 960 9661	f (86-21) 6115 6899	e sgs.china@sgs.com	

Member of the SGS Group (SGS SA)

8



Test Report No.: SHHL1602007863MD-02 Date: APR. 08, 2016 Page: 3 of 8

3. EN 455-3: 2015 Medical gloves for single use-Part 3: Requirements and testing for biological evaluation

Number	of test sample	:	5 Pieces		
Finishes	of gloves	:	Powdered-free gloves other than surgeon's g	gloves	
Defects	observed before testing	:	No defects		
Test Res	sult	:	Pass		
Clause	Test Items			Result	Note
4.4	Powder			Pass	#1,5&6
4.6	Finishes of gloves : Powdered-free gloves other than surgeor Defects observed before testing : No defects Test Result : Pass lause Test Items 4 Powder			Pass	/

Note:

- 1. As per client's declare, these gloves (four size: XS, S, M, L, XL) only size different, the material is the same, and only the glove of size M was tested.
- 2. See result 1.
- 3. See result 2.
- 4. See result 3.
- 5. Test according to EN ISO 21171-2006.
- 6. The powder of sample was 0.4mg < 2mg.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is and before any be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gs.com

中国・上海・徐汇区宜山路889号4号楼	邮编: 200233	t (86) 400 960 9661	f (86-21) 6115 6899	e sgs.china@sgs.com
4th Building, No.889, Yishan Road, Xuhui District Shang	ihai, China 200233	t (86) 400 960 9661	f (86-21) 6115 6899	www.sgsgroup.com.cn



Test Report No.: SHHL1602007863MD-02 Date: APR. 08, 2016 Page: 4 of 8

Test Results:

1. Watertightness test for detection of holes

Sample Quantity: 200pcs

AQL: 1.5 Accept: 7 Reject: 8 Found: 0

2. Dimensions

Sample Quantity: 65pcs

Size		XS											
Length(mm)	243	244	243	244	242	242	245	244	243	242	244	243	242
Width(mm)	78	77	76	77	78	77	76	78	78	76	77	76	77

Median value:

Length (mm): 243 Width (mm): 77

Size							S						
Length(mm)	246	245	246	245	245	247	246	245	244	243	244	242	245
Width(mm)	88	87	86	85	85	86	87	88	87	85	86	85	86

Median value:

Length (mm): 245 Width (mm): 86

Size							М						
Length(mm)	248	248	249	248	247	248	249	249	250	248	247	246	247
Width(mm)	96	95	97	96	97	96	95	96	95	97	96	95	96

Median value:

Length (mm): 248 Width (mm): 96

Size							L						
Length(mm)	243	242	243	242	242	242	243	244	243	244	243	242	243
Width(mm)	106	105	106	104	105	106	107	106	105	106	107	105	104

Median value:

Length (mm): 243 Width (mm): 106



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limitation of the company's sole responsibility is to its Client's intervention only and within the limitation exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN_Doccheck@gs.com



Test Report

No.: SHHL1602007863MD-02

Date: APR. 08, 2016

Page: 5 of 8

Size							XL						
Length(mm)	255	252	254	252	254	253	252	254	253	252	253	254	253
Width(mm)	117	118	115	117	116	118	117	116	115	116	117	118	117

Median value:

Length (mm): 253 Width (mm): 117

Requirements: see table 1&2

Table 1 Dimensions for surgical gloves

Size	Median length	Median width
	in mm	in mm
5	≥250	67±4
5.5	≥250	72±4
6	≥260	77±5
6.5	≥260	83±5
7	≥270	89±5
7.5	≥270	95±5
8	≥270	102±6
8.5	≥280	108±6
9	≥280	114±6
9.5	≥280	121±6

Table 2 Dimensions for examination/procedure gloves

Size	Median length	Median width
	in mm	in mm
Extra small		≪80
Small		80±10
Medium	≥240	95±10
Large		110±10
Extra Large		≥110



中国·

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document tainefunding offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are relained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

		1 M M M M M M M M M M M M M M M M M M M	16 C	
 ・上海・徐汇区宜山路889号4号楼 	邮编: 200233	t (86) 400 960 9661	f (86-21) 6115 6899	e sgs.china@sgs.com
ding, No.889, Yishan Road, Xuhui District Shangl	hai, China 200233	t (86) 400 960 9661	f (86-21) 6115 6899	www.sgsgroup.com.cn



Test Report No.: SHHL1602007863MD-02 Date: APR. 08, 2016 Page: 6 of 8

3. Strength

Sample Quantity: 26pcs

Size							М						
Force at break(N)	4.50	4.84	4.57	4.49	4.91	4.48	4.45	4.37	4.74	4.78	4.89	4.80	4.65
Force at break after challenge testing(N)	4.75	4.61	4.54	4.79	4.82	4.76	4.75	4.82	4.38	4.61	4.78	4.69	4.65

Median value:

Force at break during shelf life (N): 4.65 Force at break after challenge testing (N): 4.75

T I I O		and have not the	·	
Table 3 —	Median	values of	torce a	it break

		Force at break in Newton	
	Surgical gloves a)	Examination/pr b)	ocedure gloves c)
Throughout shelf life tested according to 5.2 and within 12 months of manufacture tested according to 5.3	≥ 9,0	≥ 6,0	≥ 3,6
a) Requirements for all surgical gloves	i.		
 Requirements for all examination polyvinylchloride, polyethylene) 	on gloves, except gloves	made from thermop	astic materials (e.g.
c) Requirements for gloves made from	thermoplastic materials (e.g	I. polyvinylchloride, polye	thylene).

Remark:

1. The sample selecting amount for Watertightness test for detection of holes is deviated to 200 pcs as accessed by SGS.



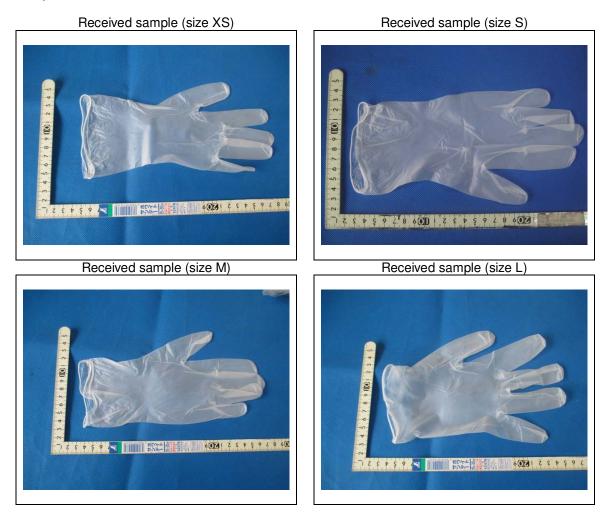
Unless otherwise agreed in writing, this document is issu overleaf, available on request or accessible at http://www.sg subject to Terms and Conditions for Electronic Documents Attention is drawn to the limitation of liability, indemnificati advised that information contained hereon reflects the Con Client's instructions, if any. The Company's sole responsi transaction from exercising all their rights and obligations except in full, without prior written approval of the Compa appearance of this document is unlawful and offenders may results shown in this test report refer only to the sample(s) te Attention: To check the authenticity of testing /inspection or email: CN.Doccheck@cos.com	<u>is.com/en/Terms-and-Cc</u> at <u>http://www.sgs.com/e</u> on and jurisdiction issue npany's findings at the ti bility is to its Client an under the transaction of ny. Any unauthorized a 'be prosecuted to the fu sted and such sample(s)	nditions.aspx and, for ele- an/Terms-and-Conditions/ as defined therein. Any h ime of its intervention on d this document does no documents. This docume Iteration, forgery or falsi llest extent of the law. Un are retained for 30 days o	ctronic format documents, Terms-e-Document.aspx. older of this document is ly and within the limits of of exonerate parties to a nt cannot be reproduced fication of the content or less otherwise stated the nly.
4" Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233	t (86) 400 960 9661	f (86-21) 6115 6899	www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号4号楼 邮编: 200233	t (86) 400 960 9661	f (86-21) 6115 6899	e sgs.china@sgs.com



Test Report

No.: SHHL1602007863MD-02 Date: APR. 0

Sample Photo:





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faislication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gs.com [4* Buiding. No.889, Yishan Road, Xuhui Disht Shanghai, China 200233 t (86) 400 960 9661 f (86-21) 6115 6899 www.sgsgroup.com.cn

中国・上海・徐汇区宜山路889号4号楼 邮编: 200233 t (86) 400 960 9661 f (86-21) 6115 6899 e sgs.china@sgs.com



Test Report

No.: SHHL1602007863MD-02

Date: APR. 08, 2016 Pa

Page: 8 of 8



SGS authenticate the photo on original report only

End of Report



4^{*} Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86) 400 960 9661 f (86–21) 6115 6899 www.sgsgroup.com.cn 中国・上海・徐汇区宜山路889号4号楼 邮编: 200233 t (86) 400 960 9661 f (86–21) 6115 6899 e sgs.china@sgs.com