



**Test Report**

No.: SHHL1703010719MD-01

Date: MAR. 28, 2017

Page: 1 of 5

QINGDAO HARDLINES LAB

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: SHHL1703010719MD  
DATE: MAR. 22, 2017

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

Sample Description : BLUE NITRILE EXAMINATION GLOVES  
SGS Ref. No. : QDHL1703004209OT  
LOT No. : 5516-20170104  
Sample Receiving Date : MAR. 13, 2017  
Testing Period : MAR. 13, 2017 TO MAR. 22, 2017  
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT  
Test Requested : 1. FREEDOM FROM HOLES (ASTM D6319-10 CLAUSE  
6.1.2)  
2. PHYSICAL DIMENSIONS (ASTM D6319-10 CLAUSE  
6.1.3)  
3. PHYSICAL PROPERTY CHARACTERISTICS (ASTM  
D6319-10 CLAUSE 6.1.4)  
4. POWDER RESIDUE FOR POWDER FREE GLOVES  
(ASTM D6319-10 CLAUSE 6.1.5)  
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE  
FOLLOWING PAGE(S)  
Conclusion : THE SUBMITTED SAMPLE MET THE TEST  
REQUIREMENT.

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

Melody Zhang  
Authorized Signatory



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# Test Report

No.: SHHL1703010719MD-01

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## Test Conducted:

ASTM D6319-10 Standard Specification for Nitrile Examination Gloves for Medical Application

Number of test sample : 244 pcs  
 Accelerated aging condition : 70 °C, 166 h  
 Defects observed before testing : No defect  
 Test Result : Pass

Clause	Test Items	Result	Note
6.1.2	Freedom from Holes	Pass	#1
6.1.3	Physical dimensions	Pass	#2
6.1.4	Physical property characteristics	Pass	#3
6.1.5	Powder Residue For Powder Free Gloves	Pass	#4

Notes :

- # 1- Test details see test result 1.
- # 2- Test details see test result 2.
- # 3- Test details see test result 3.
- # 4- Test details see test result 4.
- # 5- The sample selecting amount for Freedom from Holes is deviated to 200 pcs as accessed by SGS.
- # 6- The sample selecting amount for Physical dimensions and Physical property characteristics is deviated to 13 pcs per test as accessed by SGS.
- # 7- The hardness of the glove is materials < 35 IRHD as per client's claim.



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**Test Result:**

**1. Freedom from Holes**

Sample Quantity: 200

AQL: 2.5 Accept: 10 Reject: 11 Found: 0

**2. Dimensions**

Sample Quantity: 13

AQL: 4.0 Accept: 1 Reject: 2 Found: 0

Size	Sample No.	Length mm	Width mm	Thickness at finger mm	Thickness at palm mm
M	1	245	95	0.094	0.059
	2	246	95	0.099	0.062
	3	235	95	0.103	0.059
	4	243	95	0.096	0.058
	5	240	95	0.106	0.062
	6	242	95	0.093	0.060
	7	245	98	0.103	0.061
	8	246	96	0.094	0.058
	9	245	95	0.100	0.059
	10	243	94	0.093	0.056
	11	243	95	0.086	0.056
	12	245	94	0.089	0.063
	13	243	95	0.091	0.060
	Found	0	0	0	0

Requirements: see table 1

**Table 1 Dimensions and tolerances**

NOTE: Sizing that falls within the tolerance overlaps between two sizes may be labeled as a size range including both sizes, for example, small/medium and medium/large.

Designation	Size							Tolerance, mm
	6	6½	7	7½	8	8½	9	
Width by size, mm	75	83	89	95	102	108	114	±6
Width by	x-small	small	unisize	medium	large	X-Large		
	70	80	85	95	110	120	±10	
Length, mm		220	220	230	230	230	230	Min.
Thickness, mm								
Finger				0.05				Min.
Palm				0.05				Min.



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**3. Tensile Properties**

Sample Quantity: 26

AQL: 4.0 Accept: 1 Reject: 2 Found: 0

Sample No.	Before ageing		After ageing	
	Tensile strength MPa	Ultimate Elongation %	Tensile strength MPa	Ultimate Elongation %
1	21.6	856.7	27.3	793.3
2	31.3	746.7	31.6	833.3
3	34.6	749.6	23.2	706.7
4	31.7	1023.3	32.2	893.3
5	29.3	996.7	24.8	680.0
6	23.3	916.7	29.9	810.0
7	21.9	952.5	28.1	806.7
8	30.4	1016.7	29.5	806.7
9	29.5	1040.0	32.7	856.7
10	34.1	1058.8	34.3	1023.3
11	28.3	1030.0	30.1	853.3
12	17.1	826.7	26.1	846.7
13	25.5	976.6	32.3	980.0
Found	0	0	0	0

Requirements: see table 1

**Table 1- Physical requirements**

Before aging		After aging	
Tensile strength	Ultimate Elongation	Tensile strength	Ultimate Elongation
14 MPa Min.	500% Min.	14 MPa Min.	400% Min.

**4. Powder Residue for Powder Free Gloves**

Test Item	Test Method	Requirement	Test result	Rating
Powder residue	Clause 7.6	Have a powder residue limit of 2.0 mg.	0.46	Pass



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Sample Photo:

Sample as received (Size M)



SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*



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Testing Center Harbin

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