

Test Report

No.: QDHL2002000934MD_EN

Date: MAR.02,2020

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Client name : CHANGZHOU YIHUA SANITATION MATERIAL CO.,LTD
 Client address : NO160,ZHENGLU TOWN, TIANING DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA
 Sample Description : SURGICAL GLOVES
 Style No. : 7.5#
 P.O./Ref. No. : DH193710006
 Buyer : VVSAOL INVESTMENTS LTD
 Supplier : CHANGZHOU YIHUA SANITATION MATERIAL CO.,LTD
 Manufacture : CHANGZHOU YIHUA SANITATION MATERIAL CO.,LTD
 Country of Origin : CHINA
 Country of Destination : UGANDA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref. No. : SHHL2002503306OT
 Sample Receiving Date : FEB.19,2020
 Testing Period : FEB.19,2020 TO MAR.02,2020
 Test Performed : ASTM D 3577-2019 STANDARD SPECIFICATION FOR RUBBER SURGICAL GLOVES (SELECTED TESTS ITEM AS SPECIFIED BY THE APPLICANT)
 Test Result(s) : THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

Note: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

SGS-CSTC Standards
 Technical Services (Qingdao)
 Co., Ltd.




Zhou Xinkuan, SK
 Lab Manager



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Test Conducted:

ASTM D 3577-2019 Standard Specification for Rubber Surgical Gloves

Number of test sample	:	241 Pieces
Type of gloves	:	Type 1 Gloves compounded primarily from natural rubber latex.
Accelerated aging condition	:	70 °C,166 h
Hardness of the glove material	:	<35IRHD
Defects observed before testing	:	No Defects
Test Result	:	Pass

Clause	Test Items	Result	Note
4	Materials	N/C	#1
7.1.1	Sterility Test	N/C	#1
7.1.2	Freedom from Holes	Pass	#2
7.1.3	Physical dimensions	Pass	#3
7.1.4	Physical property characteristics	Pass	#4
7.1.5	Powder Residue for Powder Free Gloves	N/C	#1
7.1.6	Aqueous Extractable Protein Content	N/C	#1
7.1.7	Powder Limit of Powder Gloves	Pass	#5
10	Packaging and Package Marking (Excluded 10.2.5)	Pass	-

Notes : #1 N/C means not Conducted as per client's request.
#2 See result 1
#3 See result 2
#4 See result 3
#5 See result 4

Test Result:

1. Freedom from Holes

Sample Quantity: 200pcs

AQL: 1.5 Accept: 7 Reject: 8 Found: 2



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2. Dimensions

Sample Quantity: 13pcs

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

Size	Sample No.	Length (mm)	Width (mm)	Thickness at finger (mm)	Thickness at palm (mm)	Thickness at Cuff termination (mm)
7.5	1	277	95	0.255	0.212	0.158
	2	280	95	0.225	0.209	0.146
	3	279	95	0.240	0.210	0.150
	4	280	95	0.237	0.231	0.174
	5	286	95	0.225	0.212	0.146
	6	283	95	0.227	0.203	0.132
	7	283	96	0.241	0.194	0.149
	8	286	96	0.239	0.213	0.145
	9	285	95	0.243	0.212	0.150
	10	284	96	0.208	0.205	0.150
	11	284	96	0.215	0.210	0.138
	12	286	97	0.249	0.196	0.145
	13	285	96	0.226	0.201	0.141
	Found	0	0	0	0	0

Requirements: see table 2

TABLE 2 Dimensions and Tolerances

Designation	Size									Tolerance
	5½	6	6½	7	7½	8	8½	9	9½	
Length, mm	245	265	265	265	265	265	265	265	265	min
Width, mm	70	76	83	89	95	102	108	114	121	±6
Thickness, mm:	For All Sizes									
Finger	0.10									min
Palm	0.10									min
Cuff	0.10									min



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3. Tensile properties

Sample Quantity: 13pcs

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

Size	Sample No.	Before aging			After aging	
		Tensile strength (Mpa)	Ultimate Elongation (%)	Stress at 500% Elongation (Mpa)	Tensile strength (Mpa)	Ultimate Elongation (%)
7.5	1	33.0	1301.5	2.89	27.7	1053.3
	2	24.9	850.3	4.04	26.1	1089.2
	3	33.3	923.4	3.97	25.9	1074.2
	4	33.6	1222.0	3.01	29.0	897.2
	5	31.3	1167.9	3.20	24.0	849.9
	6	28.5	850.7	4.11	28.9	935.4
	7	31.1	1240.1	2.78	28.0	1212.5
	8	30.5	1253.1	2.90	28.6	840.2
	9	33.9	1231.3	3.04	31.7	903.4
	10	28.1	1160.3	3.28	27.1	866.5
	11	29.3	1044.3	3.35	32.9	814.3
	12	30.7	1143.9	2.81	26.9	915.4
	13	32.1	1201.6	3.86	30.4	981.5
	Found	0	0	0	0	0

Requirements: see table 3

TABLE 3 Physical Requirements

Type	Before Aging			After Accelerated Aging	
	Tensile Strength	Ultimate Elongation	Stress at 500 % Elongation	Tensile Strength	Ultimate Elongation
I	24 MPa, min	750 % min	5.5 MPa, max	18 MPa, min	560 % min
II	17 MPa, min	650 % min	7.0 MPa, max	12 MPa, min	490 % min

4. Powder Limit of Powder Gloves

Test item	Test Method	Requirement	Test result	Rating
Powder Limit	Clause 8.8	Have a recommended maximum powder limit of 15 mg/dm ²	1.08 mg/dm ²	Pass

Remark: The declaration of conformity is only based on the actual value of laboratory activity, measurement uncertainty of the results not take into account.



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Sample Photo:

Received sample (Size 7.5)



Package – view 1



Package – view 2



Package – view 3



SGS authenticate the photo on original report only

End of Report



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