

# Test Report

Sample Description: DISPOSABLE NITRILE EXAMINATION  
GLOVES

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Applicant: SHANGHAI JESSUBOND  
INTERNATIONAL CO., LTD

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Test Type: SUBMITTED BY CLIENT

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## Test Report

Sample information	Sample Description	DISPOSABLE NITRILE EXAMINATION GLOVES	Color	BLUE
	Received sample quantity	120PCS	Type/ Specifications	ABC-DG01
	Lot No.	NOT PROVIDED	Lot Quantity	NOT PROVIDED
	Manufacture Date	NOT PROVIDED	Expiration Date	NOT PROVIDED
	Material/Appearance	NITRILE	Storage Condition	NOT PROVIDED
	Manufacturer	NOT PROVIDED		
	Others	/		
Client information	Applicant	SHANGHAI JESSUBOND INTERNATIONAL CO., LTD		
	Applicant address	NO.558 GANGYE ROAD, DAGANG SONGJIANG DIST, SHANGHAI 201614, CHINA		
Test information	Sample Receiving Date	APR.12,2021	Test Period Date	APR.12,2021 TO APR.30,2021
	Sample No.	QDHL2104501909MD (GZHL2104012543MD) (TAOHG2101669301)	Test environment	Meet requirement
	Test items	Glove design and construction-General, Determination of pH value, Polycyclic aromatic hydrocarbons (PAHs), Sizing, Dexterity, Penetration (Air leak test, Water leak test), Resistance to degradation by chemicals, Permeation by liquid chemicals*		
	Testing Accordance	EN ISO 374-1:2016+A1:2018 Protective gloves against dangerous chemicals and micro-organisms Clause 5.1, 5.2, 5.3, 5.4*		

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<p>Test conclusion</p>	<p>This report only provides the test results and individual judgment, conclusion please see follow pages.</p> <p style="text-align: right;">Issue date: APR.30,2021</p>
<p>Remark</p>	<p>/</p>

Approver: *Jessieloco*      Auditor: *Jessieloco*      Compiler: *Lillian Diao*  
 Date: APR.30,2021                      Date: APR.30,2021                      Date: APR.30,2021



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## Sample Photo



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## Test Results

Test Items	Test Method	Requirement	Test Result	Assessment
Glove Design and Construction-General	ISO 21420:2020 Clause 4.1	The protective glove shall be designed and manufactured so that in the foreseeable conditions of use, the wearer can perform the activity as normally as possible with an appropriate protection. This document along with the appropriate specific standards shall be used to verify this adequation.	Can perform the activity normally	Pass
		If required in the relevant specific standard (for example ISO 16073:2011, 5.7.3), the glove shall be designed to minimize the donning and doffing time.	/	Not Applicable
		For reusable multilayer gloves, the gloves shall be able to be doffed without separation of the layers of the fingers. When the glove construction includes seams, the material and strength of the seams shall be such that the overall performance of the glove is not significantly decreased as required in the relevant specific standards.	/	Not Applicable



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Test Items		Test Method	Requirement	Test Result		Assessment
Determination of pH Value		ISO 21420:2020 Clause 4.2 c) ISO 3071:2020	3.5-9.5	7.0		Pass
Polycyclic Aromatic Hydrocarbons (PAHs)		ISO 21420:2020 Clause 4.2 f) ISO/TS 16190:2013(E)	≤1mg/kg	Benzo(a)anthracene (BaA)	<0.2	Pass
				Chrysene (CHR)	<0.2	
				Benzo(j)fluoranthene (BjF)	<0.2	
				Benzo(b)fluoranthene (BbF)	<0.2	
				Benzo(k)fluoranthene (BkF)	<0.2	
				Benzo(a)pyrene (BaP)	<0.2	
				Benzo(e)pyrene(BeP)	<0.2	
				Dibenzo(a,h)anthracene (DBA)	<0.2	
Sizing		ISO 21420-2020 Clause 6.1	/	Refer to Appendix 1		/
Dexterity		ISO 21420-2020 Clause 6.2	/	Performance Level 5 Refer to Appendix 2		/
Penetration	Air leak test	EN ISO 374-2:2019 clause 7.2	Air pressure used: 2.5kPa The glove shall not leak.	Sample 1	No bubbles escape.	Pass
				Sample 2	No bubbles escape.	
				Sample 3	No bubbles escape.	
				Sample 4	No bubbles escape.	
	Water leak test	EN ISO 374-2:2019 clause 7.3	The glove shall not leak.	Sample 1	No leakage	Pass
				Sample 2	No leakage	
				Sample 3	No leakage	
				Sample 4	No leakage	



Test Items	Test Method	Requirement	Test Result		Assessment
Resistance to degradation by chemicals	EN ISO 374-4: 2019	/	Chemical CAS NO.	Sodium hydroxide 40% 1310-73-2	/
			Exposure duration	60min	
			Percentage change in puncture resistance	DR <sub>1</sub> : -3.71% DR <sub>2</sub> : -5.67% DR <sub>3</sub> : -12.30% DR: -7.22% SD: 3.68	
			Observation	No change	
			Chemical CAS NO.	Ammonium hydroxide 25% 1336-21-6	/
			Exposure duration	60min	
			Percentage change in puncture resistance	DR <sub>1</sub> : -0.51% DR <sub>2</sub> : -1.73% DR <sub>3</sub> : -0.26% DR: -0.83% SD: 0.64	
			Observation	Swelling	
			Chemical CAS NO.	Formaldehyde 37% 50-00-0	/
			Exposure duration	60min	
			Percentage change in puncture resistance	DR <sub>1</sub> : -9.56% DR <sub>2</sub> : -10.97% DR <sub>3</sub> : -11.86% DR: -10.80% SD: 0.95	
			Observation	No change	



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Test Items	Test Method	Requirement	Test Result		Assessment	
Permeation by liquid chemicals*	EN 16523-1: 2015+A1:2018	/	Chemical CAS No.	Sodium hydroxide 40% 1310-73-2		/
			Thickness of specimens	0.05mm		
				0.05mm		
				0.05mm		
			Visual assessment	No change		
			NBT at NPR=1µg•cm <sup>-2</sup> •min <sup>-1</sup>	>490 min		
				>490 min		
				>490 min		
			Performance level	Level 6	Refer To appendix 3	
				Level 6		
				Level 6		
			Chemical CAS No.	Ammonium hydroxide 25% 1336-21-6		/
			Thickness of specimens	0.05mm		
				0.05mm		
				0.05mm		
			Visual assessment	Swell		
			NBT at NPR=1µg•cm <sup>-2</sup> •min <sup>-1</sup>	3 min		
				2 min		
				2 min		
			Performance level	< Level 1	Refer To appendix 3	
				< Level 1		
< Level 1						
Chemical CAS No.	Formaldehyde 37% 50-00-0		/			
Thickness of specimens	0.05mm					
	0.05mm					
	0.05mm					
Visual assessment	No change					
NBT at NPR=1µg•cm <sup>-2</sup> •min <sup>-1</sup>	115 min					
	113 min					
	112 min					
Performance level	Level 3	Refer To appendix 3				
	Level 3					
	Level 3					



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### Appendix 1: Sizing

No.	Glove length (mm)	Inner circumference of glove(mm)	Standard sizing
1	254	218	8.5
2	250	217	8.5

### Appendix 2: Dexterity

**Table 1 — Levels of performance - finger dexterity test**

Level of performance	Smallest diameter of pin fulfilling test conditions mm
1	11
2	9,5
3	8
4	6,5
5	5

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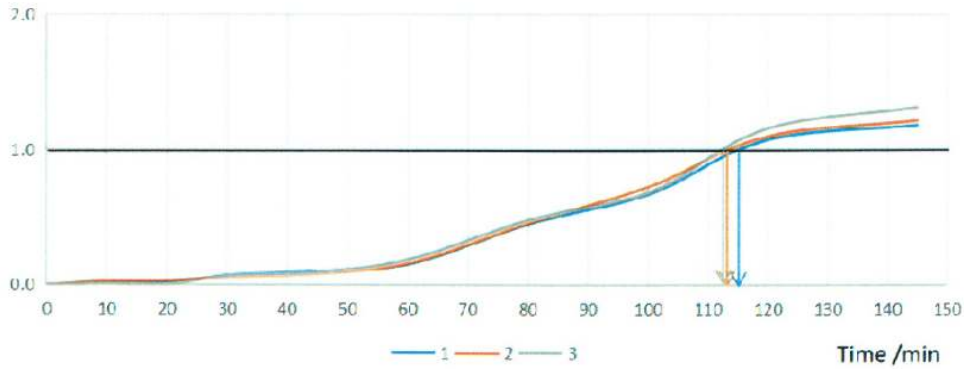
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### Appendix 3: Permeation by liquid chemical\*

Permeation rate / $\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{min}^{-1}$  37% Formaldehyde



Permeation performance level	Measured breakthrough time (minutes)
1	>10
2	>30
3	>60
4	>120
5	>240
6	>480

Remarks:

- \*The test was carried out by external laboratory assessed as competent (Jiangsu Guojian Testing Technology Co., Ltd, CMA No. 161019130764)
- 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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