

Test Report

No.: SHAHL24007189601_1

Date: Apr 25, 2024

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Client Name:

Client Address:

Sample Description: BLUE NITRILE GLOVE

Style No.: M / BLUE

Item No.: 20240326-8

Manufacturer:

The above sample(s) and information were provided by the client.

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAHL24007189601, DATE: Apr 24, 2024.

SGS No.: SHHL2403014749CW

Sample Receiving Date: Apr 12, 2024

Testing Period: Apr 12, 2024 ~ Apr 22, 2024

Test Requested: Select test(s) as requested by the client.

Testing Performed: Follow selected test(s) as requested by client.

	Test Requirement	Comment
1	Specific migration of heavy metals	See Results
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Implementing Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) 10/2011 of 14 January 2011 - Bisphenol A	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - Overall Migration	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - Specific migration of primary aromatic amine (total)	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - Specific migration of acrylonitrile	Pass

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

Lucia Liu

Lucia Liu

Approved Signatory

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	Test Requirement	Comment
7	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - 1,3-Butadiene	Pass
8	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - Specific migration of Nitrosamines and nitrosatable substances	Pass

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A1	SHA24-0071896-0001.C001	Blue rubber gloves	Rubber

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) <= less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No	Overall Migration	Specific Migration
A1	10.0 dm ² /kg	6.0 dm ² /kg

Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
3% Acetic acid (W/V)	A1 40°C, 0.5 hr

Test Item(s)	Unit(s)	RL	A1
3% Acetic acid (W/V)			
Migration times			First
Arsenic(As)	mg/kg	0.01	ND
Cadmium(Cd)	mg/kg	0.002	ND
Chromium(Cr)	mg/kg	0.01	ND
Mercury(Hg)	mg/kg	0.01	ND
Lead(Pb)	mg/kg	0.01	ND



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Test Item(s)	Unit(s)	RL	A1
Aluminium(Al)	mg/kg	0.1	ND
Barium(Ba)	mg/kg	0.25	ND
Cobalt(Co)	mg/kg	0.01	ND
Copper(Cu)	mg/kg	0.25	ND
Iron(Fe)	mg/kg	5	ND
Lithium(Li)	mg/kg	0.1	ND
Manganese(Mn)	mg/kg	0.1	ND
Zinc(Zn)	mg/kg	0.5	5.3
Nickel (Ni)	mg/kg	0.01	ND
Antimony(Sb)	mg/kg	0.01	ND
Europium(Eu)	mg/kg	0.025	ND
Gadolinium(Gd)	mg/kg	0.025	ND
Lanthanum(La)	mg/kg	0.025	ND
Terbium(Tb)	mg/kg	0.025	ND
Europium (Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	mg/kg	-	ND

Notes:

(1) Test condition & simulant were specified by client.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.

No. of panelist: 6

Test Media	Test Condition
	A1
Distilled water	40°C, 0.5 hr

Test Item(s)	Limit	Unit(s)	A1
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0
Sensorial examination taste	2.5	-	0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Implementing Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) 10/2011 of 14 January 2011 - Bisphenol A

Test Method: With reference to SGS in house method, analysis was performed by HPLC-MS/LC-MS/MS.

Test Item(s)	Limit	Unit(s)	RL	A1
Bisphenol A	Prohibited	mg/kg	0.1	ND
Comment				Pass

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants EN 1186-2:2022 Test methods for overall migration in vegetable oils

Test Condition			
	Rectified olive oil	10% Ethanol(V/V)	3% Acetic acid (W/V)
A1	40°C, 0.5 hr	40°C, 0.5 hr	40°C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A1 (1 st Migration)	Comment
Rectified olive oil	10	mg/dm ²	3.0	ND	Pass
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	8.5	Pass

Notes:

- Analytical tolerance of evaporable simulants is 2 mg/dm² or 12 mg/kg, analytical tolerance of olive oil simulant is 3 mg/dm² or 20 mg/kg.
- Test condition & simulant were specified by client.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	40°C, 0.5 hr

Test Item(s)	Limit	Unit(s)	RL	A1
3% Acetic acid (W/V)				
Migration times				First
Specific migration of primary aromatic amine	ND	mg/kg	0.01	ND
Comment				Pass



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Notes:

- (1) Test condition & simulant were specified by client.
- (2) For substances which limit is "Not Detected", the compliance is based on the first migration test result.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - Specific migration of acrylonitrile

Test Method: With reference to EN 13130-1:2004, analysis was performed by SPME-GC-MS.

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	40°C, 0.5 hr

Test Item(s)	Limit	Unit(s)	RL	A1
3% Acetic acid (W/V)				
Migration times				First
Specific migration of acrylonitrile	ND	mg/kg	0.01	ND
Comment				Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For substances which limit is "Not Detected", the compliance is based on the first migration test result.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - 1,3-Butadiene

Test Method: With reference to EN 13130-4:2004, analysis was performed by HS-GC-MS.

Test Item(s)	Limit	Unit(s)	RL	A1
1,3-butadiene	1	mg/kg	0.1	ND
Comment				Pass

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 4 - Specific migration of Nitrosamines and nitrosatable substances

Test Method: With reference to EN 13130-1: 2004, analysis was performed by GC-MS.

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	40°C, 0.5 hr

Test Item(s)	Limit	Unit(s)	RL	A1
3% Acetic acid (W/V)				
Migration times				First
Specific migration of nitrosamines	ND	mg/kg	0.01	ND
Specific migration of nitrosatable substances	ND	mg/kg	0.10	ND
Comment				Pass



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Notes:

(1) Nitrosamines tested: N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPPI), N-nitrosopyrrolidine (NPYR), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBZA), N-nitroso-N-methyl-N-phenylamine (NMPHA), N-nitroso-N-ethyl-N-phenylamine (NEPHA), N-nitrosodiisononylamine (NDiNA) and N-Nitrosodiisobutylamine (NDiBA).

(2) Test condition & simulant were specified by client.

(3) For substances which limit is "Not Detected", the compliance is based on the first migration test result.

This report added Manufacturer.

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