

Test Report No. 4789808

Date : 16-Dec-2020

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Client : 24KK CO.,LTD.
75/9 14th floor Ocean tower 2 Building, Soi Sukhumvit 19
Khlong toei nuea, Wattana BANGKOK 10110 Thailand

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

Sample Name : Glov
Sample Description : Nitrile glove
Batch/Lot No. : Glov001
Color : Blue
Country of Origin : Thailand
Country of Destination : US/EU

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 4950087
Sample Condition : Sample is contained in a paper box.
Quantity Submitted : 1 box
Sample Receiving Date : 12-Nov-2020
Testing Period : 12-Nov-2020 to 16-Dec-2020

Test Method & Results : Please refer to next page(s).

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Test Requested & Result Summary

Test Requested: Please refer to the result summary (Test parameter(s) was/were selected by client).

Result Summary:

Test Requested

(1) Japan Ministry of Health and Welfare Notice No. 370 and its amendments
Part III Section D for the compliance of the provisions of paragraph 1 of
Article 7 and Article 10 of Japan Food Sanitation Law (Law No. 233) -
a) Rubber (except nursing utensil)

1. Total Lead and Cadmium content
2. Extractable Phenol
3. Extractable Formaldehyde
4. Extractable Zinc
5. Heavy Metal (as Lead)
6. Evaporation residue of water, 4% acetic acid and 20% ethanol
7. Migration of coloring matter

Conclusion

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(2) European Commission Directive 93/11/EEC and
Council of Europe Resolution AP (2004) 4

a) Rubber - Overall Migration
3% Acetic Acid (W/V) Aqueous Solution

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PASS

(3) US FDA 21 CFR 177.2600 (Rubber Articles)-
Determination of Amount of Extractives
- Distilled Water Extractants
- n-Hexane Extractants

--

PASS
PASS

Remark: Test results in this report are applicable for the item tested and reflects the tested sample as received.

Signed for and on behalf of
SGS (Thailand) Limited



Rutchuporn Moungsom
Laboratory manager - Toy and Hardgood

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TEST RESULTS

(1) Japan Ministry of Health and Welfare Notice No. 370 and its amendments Part III Section D for the compliance of the provisions of paragraph 1 of Article 7 and Article 10 of Japan Food Sanitation Law (Law No. 233)

Method : With reference to Section III of Japan Ministry of Health and Welfare Notice No. 370 and its amendments.

1) Rubber - Total Lead and Cadmium content

Test items	Result (1) (microgram per gram)	Limit (microgram per gram)
Lead content	<2	100
Cadmium content	<2	100
Comment	PASS	--

Sample Description:

(1) Blue rubber glove

Note: 1. < = less than

2) Extractable Phenol

Test Condition : Water at 60 degree C for 30 minutes.

Test items	Result (1) (microgram per millilitre)	Limit (microgram per millilitre)
Extractable Phenol	<5	5
Comment	PASS	--

Sample Description:

(1) Blue rubber glove (outside)

Note: 1. degree C = degree Celsius

2. <5 is shown when sample solution is thinner than the standard solution with 5 microgram per millilitre of Phenol.

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TEST RESULTS

3) Extractable Formaldehyde

Test Condition : Water at 60 degree C for 30 minutes.

Test items	Result (1)	Requirement
Extractable Formaldehyde	Negative	Negative
Comment	PASS	--

Sample Description:

(1) Blue rubber glove (outside)

Note: 1. degree C = degree Celsius

4) Extractable Zinc

Test Condition : 4% acetic acid at 60 degree C for 30 minutes.

Test items	Result (1) (microgram per millilitre)	Limit (microgram per millilitre)
Extractable Zinc	8.3	15
Comment	PASS	--

Sample Description:

(1) Blue rubber glove (outside)

Note: 1. degree C = degree Celsius

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TEST RESULTS

5) Heavy metals (as Lead)

Test Condition : 4% acetic acid at 60 degree C for 30 minutes.

Test items	Result (1) (microgram per millilitre)	Limit (microgram per millilitre)
Heavy Metals (as Lead)	<1	1
Comment	PASS	--

Sample Description:

(1) Blue rubber glove (outside)

Note: 1. degree C = degree Celsius

2. <1 is shown when sample solution is thinner than the standard solution with 1 microgram per millilitre of Lead.

6) Evaporation residue of water, 4% acetic acid and 20% ethanol

Simulant Used	Test Condition	Evaporation residue Result (1) (microgram per millilitre)	Limit (microgram per millilitre)
Water	30 minutes at 60 degree C	10	60
4% Acetic Acid	30 minutes at 60 degree C	50	60
20% Ethanol	30 minutes at 60 degree C	6	60
Comment	--	PASS	--

Sample Description:

(1) Blue rubber glove (outside)

Note: 1. degree C = degree Celsius

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TEST RESULTS

7) Migration of coloring matter*

Simulant Used	Test Condition	Observation Result (1)
Water	30 minutes at 60 degree C	No color leach out
4% Acetic Acid	30 minutes at 60 degree C	No color leach out
20% Ethanol	30 minutes at 60 degree C	No color leach out
Comment	--	PASS

Sample Description:

(1) Blue rubber glove (outside)

Note: degree C = degree Celsius

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TEST RESULTS

(2) Commission Directive 93/11/EEC and Council of Europe Resolution AP (2004) 4

a) Rubber – Overall migration

Method : With reference to EN 1186-1:2002 for selection of conditions and test methods (1st migration);
EN 1186-5:2002 aqueous food simulants by cell method.

Simulant Used	Test Condition	Result (1) (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
3% Acetic Acid (W/V) Aqueous Solution	1 hour at 45 degree C	9	3.0	10
Comment	--	PASS	--	--

Sample Description :

1. Blue rubber glove (outside)

Note :

1. mg/dm² = milligram per square decimeter
2. degree C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Council of Europe Resolution AP (2004) 4.

Remark :

1. Analytical tolerance of aqueous simulants is 1mg/dm² or 6mg/kg
2. Test condition & simulant were specified by client.
3. The ratio of surface area to volume ratio is 10 dm² per 1 kg of foodstuff in contact with.

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TEST RESULTS

(3) US FDA 21 CFR 177.2600 (Rubber Articles)-Determination of Amount of Extractives

Method : With reference to US FDA 21 CFR 177.2600.

For use in contact with aqueous foods :

Extractants	Test Condition	Result (1) (mg/inch ²)	Reporting Limit (mg/inch ²)	Permissible Limit (mg/inch ²)
Distilled Water	Reflux temperature for 7 hours	1.2	0.3	20
Distilled Water	Succeeding 2 hours of extraction	0.5	0.3	1
Comment	--	PASS	--	--

For use in contact with fatty foods :

Extractants	Test Condition	Result (1) (mg/inch ²)	Reporting Limit (mg/inch ²)	Permissible Limit (mg/inch ²)
n-Hexane	Reflux temperature for 7 hours	1.4	0.3	175
n-Hexane	Succeeding 2 hours of extraction	<0.3	0.3	4
Comment	--	PASS	--	--

Sample Description :

1. Blue rubber glove

Note : 1. mg/inch² = milligram per square inch

2. < = Less than

"Test(s) marked * on this report are not included in the NSC-ONSC accreditation scope"

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SAMPLE/ATTACHMENT PICTURE



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