

Test Report No. 6089475

Date : 20-Dec-2024

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Client : N&E INNOVATIONS PTE LTD
9 CHIN BEE DRIVE, SINGAPORE

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

Sample Name : C2plus Vikamg Antimicrobial Clingwrap
Sample Description : Clingwrap
Color : Light brown
Manufacturer/Vendor : N&E INNOVATIONS PTE LTD
Country of Origin : Singapore
Country of Destination : Thailand

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

SGS Sample No. : 6392463
Sample Condition : Sample is contained in a box.
Quantity Submitted : 1 roll
Sample Receiving Date : 3-Dec-2024
Testing Period : 3-Dec-2024 to 20-Dec-2024

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

Signed for and on behalf of

SGS (Thailand) Ltd.



Rutchuporn Mounsom

Toys and Hardlines Laboratory Manager



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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

Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022)

(List no.1) : Qualities or standard for container made from plastic;

Conclusion

a) Overall migration

3% Acetic Acid (W/V)

10% Ethanol (V/V)

PASS

PASS

b) Specific Migration of Heavy Metal

PASS

c) Specific Migration of Primary Aromatic Amine

PASS

d) Specific Migration of Vinylchloride

PASS

e) Pathogenic microorganisms

See results

Remark:

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

2. The decision rules based on simple acceptance which the probability of false accept may be as high as 50% in case the results is exactly on the tolerance limit.

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NSC-TISI-TIS 17025
Testing 0013
Testing 1703
SGS (Thailand) Limited

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TEST RESULTS

Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022) (List no.1) : Qualities or standard for container made from plastic;

a) Overall migration

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 method (1st migration);
EN 1186-3:2022 Test methods for overall migration in evaporable simulants

Simulant Used	Test Condition	Result (1) (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
3% Acetic Acid (W/V)	10 days at 40 Degree C	ND	3.0	10
10% Ethanol (V/V)	10 days at 40 Degree C	ND	3.0	10
Comment	--	PASS	--	--

Sample Description :

1. Clear plastic film

Note :

1. mg/dm² = milligram per square decimeter
2. Degree C = degree Celsius
3. ND = Not Detected

Remark :

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume is 10 dm² per 1 kg of foodstuff in contact with.
3. The product is single-use as specified by client.

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TEST RESULTS

b) Specific migration of heavy metal***

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

Simulant Used: 3% acetic acid (w/v)

Test Condition: 40 Degree C for 10 days(1st Migration)

Test Item	Result (1) (mg/kg) (1 st migration)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Aluminium	ND	0.1	1
Specific Migration of Antimony	ND	0.01	0.04
Specific Migration of Arsenic	ND	0.01	ND
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cadmium	ND	0.002	ND
Specific Migration of Chromium	ND	0.01	ND
Specific Migration of Cobalt	ND	0.01	0.05
Specific Migration of Copper	ND	0.25	5
Specific Migration of Iron	ND	5	48
Specific Migration of Lead	ND	0.01	ND
Specific Migration of Lithium	ND	0.1	0.6

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TEST RESULTS

Test Item	Result (1) (mg/kg) (1 st migration)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Manganese	ND	0.1	0.6
Specific Migration of Mercury	ND	0.01	ND
Specific Migration of Nickel	ND	0.01	0.02
Specific Migration of Zinc	ND	0.5	5
Specific Migration of Europium	ND	0.025	-
Specific Migration of Gadolinium	ND	0.025	-
Specific Migration of Lanthanum	ND	0.025	-
Specific Migration of Terbium	ND	0.025	-
Specific Migration of Europium + Gadolinium + Lanthanum + Terbium	ND	--	0.05
Comment	PASS	--	--

Sample Description:

1. Clear plastic film

Note :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. Degree C = degree Celsius
3. ND = Not Detected

Remark:

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with.
3. The product is single-use as specified by client.
4. The test item(s) marked *** on test report is/are analyzed at SGS (Thailand) Limited, address: 10, 10/1 - 4 and 12 Soi Rama III S. 59, Chong Nonsi, Yan Nawa, Bangkok.

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TEST RESULTS

c) Specific migration of Primary Aromatic Amine***

Method : LBTY-23011 based on EN 13130-1: 2004 and Regulation EU No.10/2011 by LC-MS/MS

Simulant Used: 3% acetic acid (w/v)

Test Condition: 40 degree C for 10 days (1st Migration)

Test Item	Cas No.	Result (1) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
1,3-phenylenediamine	108-45-2	ND	0.002	ND
4,4'-Methylenebis (3-chloro-2,6-diethylaniline)	106246-33-7	ND	0.001	0.05
4,4'-diaminodiphenyl sulphone	80-08-0	ND	0.002	5
2-aminobenzamide	88-68-6	ND	0.002	0.05
Comment	--	PASS	--	--

Sample Description:

1. Clear plastic film

Note:

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. degree C = degree Celsius
3. ND = Not Detected

Remark:

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with.
3. The test item(s) marked *** on test report is/are analyzed at SGS (Thailand) Limited, address: 10, 10/1 - 4 and 12 Soi Rama III S. 59, Chong Nonsi, Yan Nawa, Bangkok.

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TEST RESULTS

Method : With reference to EN 13130-1 : 2004. Analysis was performed by UV-Vis Spectrophotometer.

Simulant Used : 3% acetic acid (w/v)

Test Condition: 40 degree C for 10 days (1 st Migration)

Test Item	Result (1) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Primary Aromatic Amine	ND	0.002	0.01
Comment	PASS	--	--

Sample Description :

1. Clear plastic film

Note :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. C = degree Celsius
3. ND = Not Detected

Remark:

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with.

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TEST RESULTS

d) Specific Migration of Vinyl Chloride***

Method : With reference to EN 13130-1:2004; followed by analysis using Headspace Gas Chromatography - Mass Spectrometry (Headspace GC-MS) (1st migration).

Simulant Used: 3% acetic acid (w/v)

Test Condition: 40 Degree C for 10 Days (1st Migration)

Simulant Used	Result (1) (mg/kg)	Limit of Quantitative (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Vinyl Chloride	<0.01	0.01	ND
Comment	PASS	--	--

Sample Description :

1. Clear plastic film

Note:

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. degree C = degree Celsius
3. < = Less than

Remark :

1. Test condition & simulant were specified by client.
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TEST RESULTS

e) Pathogenic microorganisms

Test Items	Method	Results	Units
<i>Salmonella spp.</i> ***	ISO 6579-1 : 2017	Not detected	Per 100 square centimeter
<i>Staphylococcus aureus</i> ***	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 39	Not detected	Per 100 square centimeter
<i>Clostridium perfringens</i> ***	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 33	Not detected	Per 100 square centimeter
<i>Bacillus cereus</i> ***	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 31	Not detected	Per 100 square centimeter
<i>E.coli</i> ***	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 9	Not detected	Per 100 square centimeter

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SAMPLE/ATTACHMENT PICTURE



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

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