

Test Report No. 5687511

Date : 2-Oct-2023

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**Client : Excel Packaging Co.,Ltd.
135,135/1-2 Moo 9 Soi Kratoomlom 9 Puthamonthon Sai 4 Road
Kratoomlom,Sampran Nakornpathom 73220 Thailand**

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

Sample Name : PET (Sheet & Tray)
Sample Description : PET
Color : Clear

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

SGS Sample No. : 5954386
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 pack
Sample Receiving Date : 1-Sep-2023
Testing Period : 1-Sep-2023 to 27-Sep-2023

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

"This Test Report supersedes the Test Report No.5684014 Dated 27-Sep-2023 issued by SGS (Thailand) Ltd. due to revise analytical information"

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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	Conclusion
(1) Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022) (List no.2 table 1 and 2) : Qualities or standard for container made from plastic;#	--
a) Polyethylene terephthalate (PET)	
1. Lead content	PASS
2. Cadmium content	PASS
3. Antimony in 4% concentrated acetic acid extraction	PASS
4. Germanium in 4% concentrated acetic acid extraction	PASS
5. Heavy metal (as lead) in 4% concentrated acetic acid extraction	PASS
6. Quantity of potassium Permanganate Consumed	PASS
7. Residue after Evaporation Test	PASS
8. Migration of color extraction	PASS
9. Pathogenic microorganisms	See results
(2) European Commission Regulation (EU) No 10/2011 and its amendment	--
a) Overall migration##	
3% Acetic Acid (W/V)	PASS
10% Ethanol (V/V)	PASS
Rectified Olive Oil	PASS
b) Specific Migration of Heavy Meta#	PASS
c) Specific migration of Primary Aromatic Amine#	PASS^
d) Specific Migration of Bisphenol A#	PASS

Remark:

1. Test results in this report are applicable for the item tested and reflects the tested sample as received.
2. ^ = Only Listed in Entry 43 to Appendix 8 of Annex XVII of REACH and in Table 1 of Annex I in (EU) No 10/2011.
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.
3. ## ; The decision rules based on the requested specification or standard.

**Signed for and on behalf of
SGS (Thailand) Ltd.**

**Rutchuporn Mounksom
Laboratory manager - Toy and Hard goods**

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TEST RESULTS

(1) Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022) (List no.2 table 1 and 2) : Qualities or standard for container made from plastic;

a) Polyethylene terephthalate (PET)

Qualities and standard of plastic

Method : With reference to TIS 656: 2556. Analysis was performed by ICP-OES.

Details	Result (1) (mg/kg)	Limit of Quantitative (mg/kg)	Permissible Limit (mg/kg)
Lead content***	<2	2.0	100
Cadmium content***	<2	2.0	100

Sample Description :

1. Clear plastic sheet

Note :

1. mg/kg = miligram per kilogram
2. < = Less than

Remark: 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

Qualities and standard of dissemination

Method : With reference to TIS 656: 2556

Details	Test Condition [^]	Result (1) (mg/dm ³)	Limit of Quantitative (mg/dm ³)	Permissible Limit (mg/dm ³)
Antimony***	30 minute at 95 degree C	<0.02	0.02	0.05
Germanium***	30 minute at 95 degree C	<0.02	0.02	0.10
Heavy metal (calculated as lead) in 4% concentrated acetic acid extraction	30 minute at 95 degree C	<1	--	1
Potassium permanganate used for reaction in water extraction	30 minute at 95 degree C	<1	1.0	10
Residue substances which is evaporate in water	30 minute at 95 degree C	<3	3.0	30
Residue substances which is evaporate in 4% concentrated acetic acid	30 minute at 95 degree C	<3	3.0	30
Residue substances which is evaporate in 20% concentrated alcohol	30 minute at 95 degree C	<3	3.0	30
Residue substances from volatile matters in normal heptane	Room temperature (1 hr. at 25 degree C)	<3	3.0	30

Sample Description :

1. Clear plastic sheet

Note :

1. mg/dm³ = milligram per cubic decimeter
2. Degree C = degree Celsius
3. < = Less than

Remark :

1. [^] = In case of the use at temperature higher than 100 degree Celsius
2. 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

Qualities and standard of dissemination

Test Method : With reference to TIS 655 -1 : 2553

Details	Test Condition [^]	Result (1)	Permissible Limit
Migration of color extract by water	30 minute at 95 degree C	Negative (See Note 2)	Negative
Migration of color extract by 4% concentrated acetic acid	30 minute at 95 degree C	Negative (See Note 2)	Negative
Migration of color extract by 20% concentrated alcohol	30 minute at 60 degree C	Negative (See Note 2)	Negative
Migration of color extract by normal heptanes	Room temperature (1 hr. at 25 degree C)	Negative (See Note 2)	Negative

Sample Description :

1. Clear plastic sheet

Note :

1. Degree C = degree Celsius
2. "Negative" mean it's not presence of color migration/ "Positive" mean it's presence of color migration

Remark :

1. [^] = In case of the use at temperature higher than 100 degree Celsius

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TEST RESULTS

Pathogenic microorganisms

Test Items	Method	Results	Units
<i>Salmonella spp.</i> ***	ISO 6579-1 : 2017	Not detected	Per 50 square centimeter
<i>Staphylococcus aureus</i> ***	Compendium of methods for the examination of foods,5th edition,2015,chapter 39	Not detected	Per 50 square centimeter
<i>Clostridium perfringens</i> ***	Compendium of methods for the examination of foods,5th edition,2015,chapter 33	Not detected	Per 50 square centimeter
<i>Bacillus cereus</i> ***	Compendium of methods for the examination of foods,5th edition,2015,chapter 31	Not detected	Per 50 square centimeter
<i>E.coli</i> ***	Compendium of methods for the examination of foods,5th edition,2015,chapter 9	Not detected	Per 50 square centimeter
Total Plate Count***	ISO 4833-1: 2013	Less than 1	CFU/50 square centimeter

Remark: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

(2) European Commission Regulation (EU) No 10/2011 and its amendment

a) Plastic - 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 1186-2:2022 Test methods for overall migration in vegetable oils
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)	2 hours at 100 Degree C	ND	3.0	10
10% Ethanol (V/V)	2 hours at 100 Degree C	ND	3.0	10
Rectified Olive Oil***	1 hour at 121 Degree C	ND	3.0	10
Comment	--	PASS	--	--

Sample Description :

1. Clear plastic sheet

Note :

1. mg/dm² = milligram per square decimeter
2. Degree C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 and its amendment.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Analytical tolerance of olive oil simulant is 3mg/dm².
3. Test condition & simulant were specified by client.
4. The ratio of surface area to volume is 10 dm² per 1 kg of foodstuff in contact with.
5. The product is single-use as specified by client.
6. 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

b) Specific migration of heavy metal

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

Ammonium was analyzed by UV-Vis Spectrophotometer.

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

Test Condition: 60 Degree C for 10 Days (1st Migration)

Single-use article:

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	--	--

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TEST RESULTS

Test Item	Result (1) (mg/kg) (1st migration)	Reporting Limit (mg/kg)
Specific Migration of Ammonium	ND	1
Specific Migration of Calcium***	ND	1
Specific Migration of Magnesium***	ND	1
Specific Migration of Potassium***	ND	1
Specific Migration of Sodium***	ND	1

Sample Description:

1. Clear plastic sheet

Note :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. Degree C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 and its amendment

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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c) Specific migration of Primary Aromatic Amine***

- Listed in Entry 43 to Appendix 8 of Annex XVII of REACH and in Table 1 of Annex I in (EU) No 10/2011

Method: With reference to EN13130-1:2004. Analysis was performed by LC-MSMS.

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

Test Condition: 60 degree C for 10 days (1st Migration)

Test Item	Cas No.	Result (1) 1st Migration (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
biphenyl-4-ylamine 4-aminobiphenyl xenylamine	92-67-1	ND	0.002	ND
benzidine	92-87-5	ND	0.002	ND
4-chloro-o-toluidine	95-69-2	ND	0.002	ND
2-naphthylamine	91-59-8	ND	0.002	ND
o-aminoazotoluene 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine	97-56-3	ND	0.002	ND
5-nitro-o-toluidine	99-55-8	ND	0.002	ND
4-chloroaniline	106-47-8	ND	0.002	ND
4-methoxy-m-phenylenediamine	615-05-4	ND	0.002	ND
4,4'-methylenedianiline 4,4'-diaminodiphenylmethane	101-77-9	ND	0.002	ND
3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenedia mine	91-94-1	ND	0.002	ND

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TEST RESULTS

Test Item	Cas No.	Result (1) 1st migration (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
3,3'-dimethoxybenzidine o-dianisidine	119-90-4	ND	0.002	ND
3,3'-dimethylbenzidine 4,4'-bi-o-toluidine	119-93-7	ND	0.002	ND
4,4'-methylenedi-o-toluidine	838-88-0	ND	0.002	ND
6-methoxy-m-toluidine p-cresidine	120-71-8	ND	0.002	ND
4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	ND	0.002	ND
4,4'-oxydianiline	101-80-4	ND	0.002	ND
4,4'-thiodianiline	139-65-1	ND	0.002	ND
o-toluidine 2-aminotoluene	95-53-4	ND	0.002	ND
4-methyl-m-phenylenediamine	95-80-7	ND	0.002	ND
2,4,5-trimethylaniline	137-17-7	ND	0.002	ND
o-anisidine 2-methoxyaniline	90-04-0	ND	0.002	ND
4-amino azobenzene	60-09-3	ND	0.002	ND
1,3-phenylenediamine	108-45-2	ND	0.002	ND
Comment	--	PASS	--	--

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TEST RESULTS

Sample Description:

1. Clear plastic sheet

Note:

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. degree C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) 2020/1245 of 2 September 2020.

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

d) Specific Migration of Bisphenol A***

Method: With reference to EN 13130-1:2004 and DD CEN/TS 13130-13:2005, Regulation EU No10/2011. Analysis was performed by HPLC-MS/MS.

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

Test Condition: 60 degree C for 10 days (1st Migration)

Test Item	Result (1) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Bisphenol A	ND	0.01	0.05 ^{^^}
Comment	PASS	--	--

Sample Description :

1. Clear plastic sheet

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. ND = Not Detected

3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 and its amendment

Remark:

1. ^{^^} = The limits of Bisphenol A according to Commission Regulation (EU) 2018/213 shall be applied from 6 September 2018.

2. Test condition & simulant were specified by client.

3. The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with.

4. The product is single-use as specified by client.

5. 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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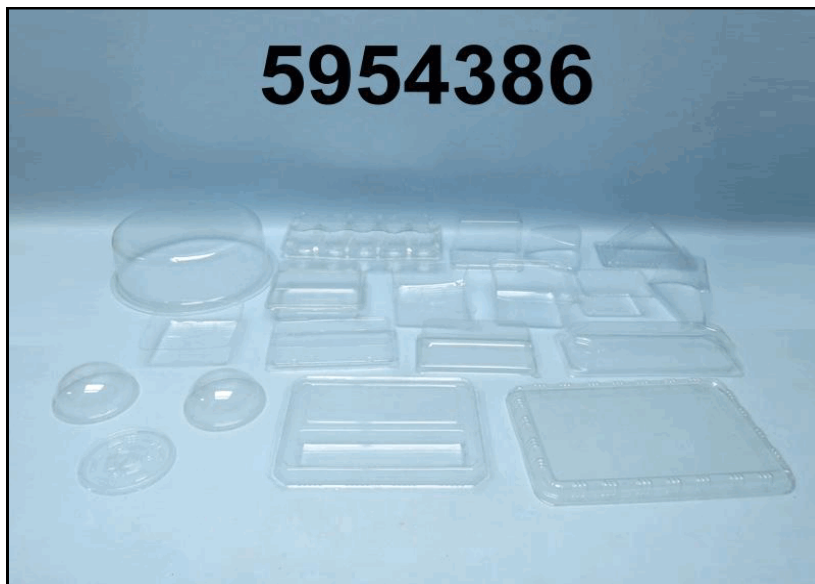
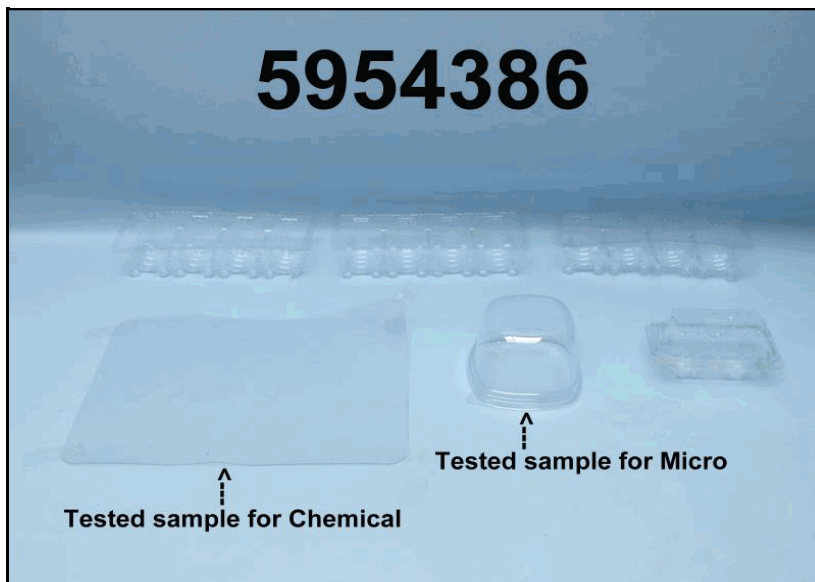
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SAMPLE/ATTACHMENT PICTURE



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

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