

**Test Report No.** 6027631

**Date :** 10-Oct-2024

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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. : 6332920  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 1 bag  
Sample Receiving Date : 20-Sep-2024  
Testing Period : 20-Sep-2024 to 10-Oct-2024

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

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

**Rutchuporn Mounksom  
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	Conclusion
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.

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**TEST RESULTS**

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

**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 1186-2:2022 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 <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
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 hours at 121 Degree C	ND	3.0	10
Comment	--	PASS	--	--

Sample Description :

1. Clear plastic sheet

Note :

1. mg/dm<sup>2</sup> = 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 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm<sup>2</sup>.
2. Analytical tolerance of olive oil simulant is 3mg/dm<sup>2</sup>.
3. Test condition & simulant were specified by client.
4. The ratio of surface area to volume is 10 dm<sup>2</sup> 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)

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***	0.03	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 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 with amendments.

Remark:

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume is 6 dm<sup>2</sup> 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\*\*\*

- 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 (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 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
3. The product is single-use as specified by client.

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**

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

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

Test Condition: 60 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 sheet

**Note :**

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

**Remark:**

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume is 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
3. The product is single-use as specified by client.
4. The "Pass" comment does not include the 23 individual Primary Aromatic Amines Listed in Entry 43 to Appendix 8 of Annex XVII to Regulation (EC) No 1907/2006 and no specified migration limit in Table 1 of Annex I in (EU) No 10/2011. Suggest to analyse the 23 individual Primary Aromatic Amine by using LC-MS/MS method to confirm whether they comply with the requirement of 0.002mg/kg.

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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 <sup>^</sup>
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 with amendments.

**Remark:**

1. <sup>^</sup> = 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 dm<sup>2</sup> per 1 kg of foodstuff in contact with. (for total migration)

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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SAMPLE/ATTACHMENT PICTURE



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

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