

Test Report No. 6117747

Date : 27-Jan-2025

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Client : THEPVIMOL PLASTIC CO.,LTD
81 Soi Thainthalay30 Bangkhunthien-Chinethalay Rd. Thakham
Bangkhunthien Bangkok 10150 Thailand

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

Sample Name : White PS Foam Tray
Sample Description : Plastic PS

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

SGS Sample No. : 6426858
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 bag
Sample Receiving Date : 30-Dec-2024
Testing Period : 30-Dec-2024 to 27-Jan-2025

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

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



Rutchuporn Moungsom
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
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	
3% Acetic Acid (W/V)	PASS
10% Ethanol (V/V)	PASS
20% Ethanol (V/V)	PASS
50% Ethanol (V/V)	PASS
Rectified Olive Oil	PASS
b) Specific Migration of Heavy Metal	PASS
c) Specific Migration of Primary Aromatic Amine	PASS
d) clause 4(5) Visible Color Migration	PASS

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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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 1186-2:2022 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)	10 days at 20 Degree C	ND	3.0	10
10% Ethanol (V/V)	10 days at 20 Degree C	ND	3.0	10
20% Ethanol (V/V)	10 days at 20 Degree C	ND	3.0	10
50% Ethanol (V/V)	10 days at 20 Degree C	ND	3.0	10
Rectified Olive Oil***	10 days at 20 Degree C	ND	3.0	10
Comment	--	PASS	--	--

Sample Description :

1. White foam tray

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.
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.
5. The test result have been extracted from report number 6117733.

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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: 20 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 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. White foam tray

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.
5. The test result have been extracted from report number 6117733.

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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: 20 degree C for 10 days (1st Migration)

Test Item	Cas No.	Result (1) (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) (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
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	--	--

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TEST RESULTS

Sample Description:

1. White foam tray

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: 20 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. White foam tray

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) clause 4(5) Visible Color Migration

Method : With reference to Resolution AP (89) 1

Simulant Used	Result (1)	Requirement
3% Acetic Acid (W/V)	No color release observed	No colour release
20% Ethanol (V/V)	No color release observed	No colour release
Coconut Oil	No color release observed	No colour release
Comment	PASS	--

Sample Description :

- 1. White foam tray

Note : 1. Requirement is according to Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022) : Qualities or standard for container made from plastic ; clause 4(5).

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SAMPLE/ATTACHMENT PICTURE



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

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