



Date : 16-Mar-2023

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## Client : Prepack Thailand Co., Ltd. 30/145,Moo1, Khok Kham, Muang Samutsakhon, Samutsakorn 74000 Thailand

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

g.

Sample Receiving Date	: 21-Feb-2023
Testing Period	: 21-Feb-2023 to 16-Mar-2023

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:** 

Conclusion 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;

a) Overall migration	
3% Acetic Acid (W/V)	PASS
10% Ethanol (V/V)	PASS
20% Ethanol (V/V)	PASS
Rectified Olive Oil	PASS
b) Specific Migration of Heavy Metal	PASS
c) Specific Migration of Primary Aromatic Amine	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.

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

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

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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 limits

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/dm2)	Reporting Limit (mg/dm2)	Permissible Limit (mg/dm2)
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
20% Ethanol (V/V)*	10 days at 40 Degree C	ND	3.0	10
Rectified Olive Oil**	10 days at 40 Degree C	ND	3.0	10
Comment		PASS		

Sample Description :

1. White plastic bag with multicolor printed (inside)

#### 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 20 dm2 per 1 kg of foodstuff in contact with.

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

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 but not included in the NSC-ONSC accreditation scope.

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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) 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 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 plastic bag with multicolor printed (inside)

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

## c) Specific migration of Primary Aromatic Amine

Method: With reference to EN13130-1:2004. Analysis was performed by LC-MSMS. Simulant Used: 3% acetic acid (w/v) Test Condition: 40 degree C for 10 Days (1st Migration)

Test Item Cas No. Result (1) Reporting Limit Permissible Limit (mg/kg) (mg/kg) (mg/kg) biphenyl-4-ylamine 92-67-1 ND 0.002 ND 4-aminobiphenyl xenylamine\*\*\* benzidine\*\*\* ND 0.002 ND 92-87-5 4-chloro-o-toluidine\*\*\* 95-69-2 ND 0.002 ND 2-naphthylamine\*\*\* 91-59-8 ND 0.002 ND 97-56-3 ND 0.002 ND o-aminoazotoluene 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine\*\*\* 5-nitro-o-toluidine\*\*\* ND 0.002 ND 99-55-8 4-chloroaniline\*\*\* ND 0.002 ND 106-47-8 4-methoxy-m-phenylenediamine\*\*\* 615-05-4 ND 0.002 ND 0.002 4,4'-methylenedianiline 101-77-9 ND ND 4,4'-diaminodiphenylmethane\*\*\* 3,3'-dichlorobenzidine 91-94-1 ND 0.002 ND 3,3'-dichlorobiphenyl-4,4'-ylenedia mine\*\*\* 3,3'-dimethoxybenzidine 119-90-4 ND 0.002 ND o-dianisidine\*\*

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Test Item	Cas No.	Result (1) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
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	0.002	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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#### Primary Aromatic Amine (Other)\*\*

Test Item	Cas No.	Result (1) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Benzoguanamin	91-76-9	ND	0.002	
p-phenylenediamine	106-50-3	ND	0.002	
Aniline	62-53-3	ND	0.002	
2,4-xylidine	95-68-1	ND	0.002	
2,6-xyidine	87-62-7	ND	0.002	
3-Methoxyaniline	536-90-3	ND	0.002	
2,6-toluenediamine	823-40-5	ND	0.002	
1,5-diaminonaphthalene	2243-62-1	ND	0.002	
4-ethoxyaniline	156-43-4	ND	0.002	
3-amino-4-methoxybenzanilide	120-35-4	ND	0.002	
3-amino-4-methylbenzamide	19406-86-1	ND	0.002	
2-amino-5-methylbenzoic acid	2941-78-8	ND	0.002	
2-Aminobenzoic acid butyl ester	7756-96-9	ND	0.002	
5-Chloro-o-toluidine	95-79-4	ND	0.002	
o-Phenylendiamine	95-54-5	ND	0.002	
m-Chloroaniline	108-42-9	ND	0.002	

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Test Item	Cas No.	Result (1) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
o-Chloroaniline	95-51-2	ND	0.002	
m-Toluidine	108-44-1	ND	0.002	
p-Toluidine	106-49-0	ND	0.002	
2-Methoxy-4-nitroaniline	97-52-9	ND	0.002	
2-Ethoxyaniline	94-70-2	ND	0.002	
5-Chloro-2-methoxyaniline	95-03-4	ND	0.002	
4-Chloro-3-methoxyaniline	13726-14-2	ND	0.002	
5-Amino-6-methyl-1,3-dihydrobenzoi midazol-2-one	67014-36-2	ND	0.002	
p-Aminobenzamide	2835-68-9	ND	0.002	
2,5-Dichloroaniline	95-82-9	ND	0.002	
2-Chloro-4-nitroaniline	121-87-9	ND	0.002	
2,5-Dimethoxyl-4-chloroaniline	6358-64-1	ND	0.002	
2,4-Dinitroaniline	97-02-9	ND	0.002	
2-Aminobiphenyl	90-41-5	ND	0.002	
Dimethyl-2-aminoterepthalate	5372-81-6	ND	0.002	
1,3-Diaminoisoindoline	3468-11-9	ND	0.002	

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Testing 0013 SGS (Thailand) Limited

# Test Report No. 5519139 TEST RESULTS

Date : 16-Mar-2023

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Test Item	Cas No.	Result (1) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
p-Anisidine	104-94-9	ND	0.002	
3,4-dichloroaniline	95-76-1	ND	0.002	
1-Naphthylamine	134-32-7	ND	0.002	
2,4-Diaminodiphenylmethane	1208-52-2	ND	0.002	
2-Methyl-4-nitroaniline	99-52-5	ND	0.002	
Primary Aromatic Amine (Other)		ND		0.01 (Sum)
Comment		PASS		

Sample Description:

1. White plastic bag with multicolor printed (inside)

#### 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 but not included in the NSC-ONSC accreditation scope.
4.The test item(s) marked \*\*\* on test report is/are analyzed at SGS (Thailand) Limited, address: 10, 10/1 - 4 and 12 Soi

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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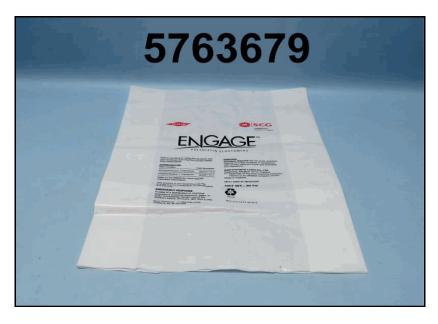




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SAMPLE/ATTACHMENT PICTURE



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