

Test Report No. 5519311

Date : 16-Mar-2023

Page 1 of 12

**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:

Sample Name : PET/ALU/LLDPE  
Sample Description : Plastic bag  
Manufacturer/Vendor : PREPACK THAILAND CO.,LTD.  
Country of Origin : Thailand

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

SGS Sample No. : 5763691  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 1 pack  
Sample Receiving Date : 21-Feb-2023  
Testing Period : 21-Feb-2023 to 16-Mar-2023

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

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5221024

**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 2 of 12**

**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
MPPO For dry food	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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5221024

**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 3 of 12**

**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

EN1186-13 :2002 Method B - adsorption by modified polyphenylene oxide.

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)*	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
50% 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
Poly (2,6-diphenyl-p-phenylene oxide) (MPPO)	10 days at 40 Degree C	ND	3.0	10
Comment	--	PASS	--	--

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5221024

**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 4 of 12**

**TEST RESULTS**

Sample Description :

(1) Aluminium foil/ clear plastic bag with multicolor printed (inside)

Note :

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

5221024

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**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 5 of 12**

**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: 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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5221024

**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 6 of 12**

**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. Aluminium foil/ clear 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 & simulatant 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 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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5221024

**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 7 of 12**

**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: 60 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
3,3'-dimethoxybenzidine o-dianisidine***	119-90-4	ND	0.002	ND

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5221024

**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 8 of 12**
**TEST RESULTS**

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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5221024



Test Report No. 5519311

Date : 16-Mar-2023

Page 9 of 12

TEST RESULTS

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-xylydine	95-68-1	ND	0.002	--
2,6-xylydine	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-Phenylenediamine	95-54-5	ND	0.002	--
m-Chloroaniline	108-42-9	ND	0.002	--

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5221024

**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 10 of 12**

**TEST RESULTS**

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-Dimethoxy-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-aminoterephthalate	5372-81-6	ND	0.002	--
1,3-Diaminoisoindoline	3468-11-9	ND	0.002	--

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5221024

**Test Report No.** 5519311

**Date :** 16-Mar-2023

**Page 11 of 12**

**TEST RESULTS**

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. Aluminium foil/ clear 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 dm<sup>2</sup> 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.
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5221024

Test Report No. 5519311

Date : 16-Mar-2023

Page 12 of 12

### SAMPLE/ATTACHMENT PICTURE



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

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5221024