

**Test Report No.** 5848051

**Date :** 29-Mar-2024

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**Client : Prepack Thailand Co., Ltd.**  
**30/145,Moo1,**  
**Khok Kham, Muang Samutsakhon, Samut Sakorn 74000 Thailand**

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

Sample Name : MDO/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. : 6138260  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 1 pack  
Sample Receiving Date : 11-Mar-2024  
Testing Period : 11-Mar-2024 to 29-Mar-2024

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

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



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



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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
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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) Specific Migration of Primary Aromatic Amine	PASS
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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) 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: 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
3,3'-dimethoxybenzidine o-dianisidine***	119-90-4	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'-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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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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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-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-aminoterephthalate	5372-81-6	ND	0.002	--
1,3-Diaminoisoindoline	3468-11-9	ND	0.002	--

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**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. 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.
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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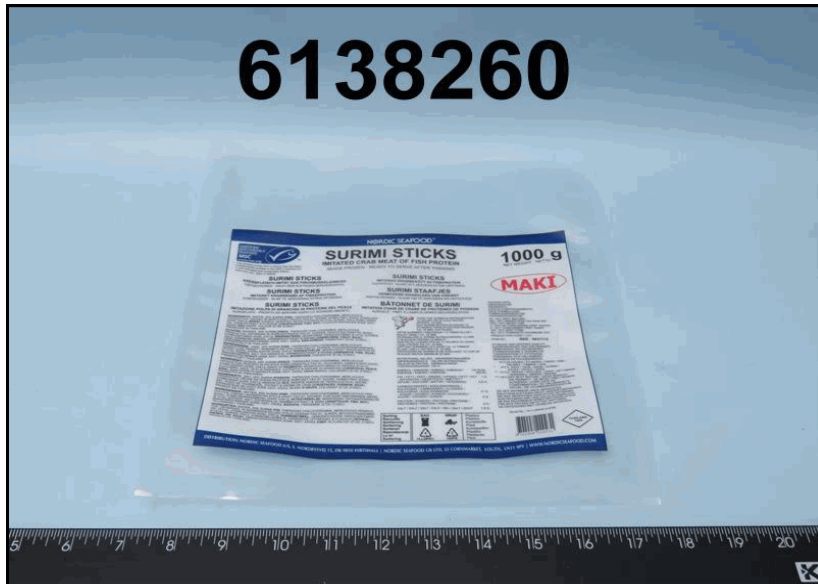
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SAMPLE/ATTACHMENT PICTURE



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

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