

**Test Report No.** 5893585

**Date :** 21-May-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 : ONY/HPET/WLLDPE  
Sample Description : Plastic film  
Manufacturer/Vendor : PREPACK THAILAND CO., LTD.  
Country of Origin : Thailand

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

SGS Sample No. : 6199412  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 1 pack  
Sample Receiving Date : 13-May-2024  
Testing Period : 13-May-2024 to 21-May-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 |
|----------------|------------|

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 |
|---|------|

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: 100 degree C for 1 hour (1st Migration)

| Test Item   | Cas No.  | Result (1)<br>(mg/kg) | Reporting Limit<br>(mg/kg) | Permissible Limit<br>(mg/kg) |
|---|----------|-----------------------|----------------------------|------------------------------|
| biphenyl-4-ylamine<br>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<br>4-amino-2',3-dimethylazobenzene<br>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<br>4,4'-diaminodiphenylmethane***                           | 101-77-9 | ND                    | 0.002                      | ND                           |
| 3,3'-dichlorobenzidine<br>3,3'-dichlorobiphenyl-4,4'-ylenedia<br>mine***            | 91-94-1  | ND                    | 0.002                      | ND                           |
| 3,3'-dimethoxybenzidine<br>o-dianisidine***   | 119-90-4 | ND                    | 0.002                      | ND                           |

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TEST RESULTS

| Test Item  | Cas No.     | Result (1)<br>(mg/kg) | Reporting Limit<br>(mg/kg) | Permissible Limit<br>(mg/kg) |
|--|-------------|-----------------------|----------------------------|------------------------------|
| 3,3'-dimethylbenzidine<br>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)<br>2,2'-dichloro-4,4'-methylene-dianiline<br>*** | 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<br>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<br>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<br>(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)<br>(mg/kg) | Reporting Limit<br>(mg/kg) | Permissible Limit<br>(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-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)<br>(mg/kg) | Reporting Limit<br>(mg/kg) | Permissible Limit<br>(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<br>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)<br>(mg/kg) | Reporting Limit<br>(mg/kg) | Permissible Limit<br>(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 film 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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SAMPLE/ATTACHMENT PICTURE



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

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