

Test Report No. 5915699

Date : 13-Jun-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/LLDPE (A)
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. : 6199431
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 13-Jun-2024

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) 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-MS/MS.

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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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 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 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 white/ black 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 Rama III S. 59, Chong Nonsi, Yan Nawa, Bangkok.

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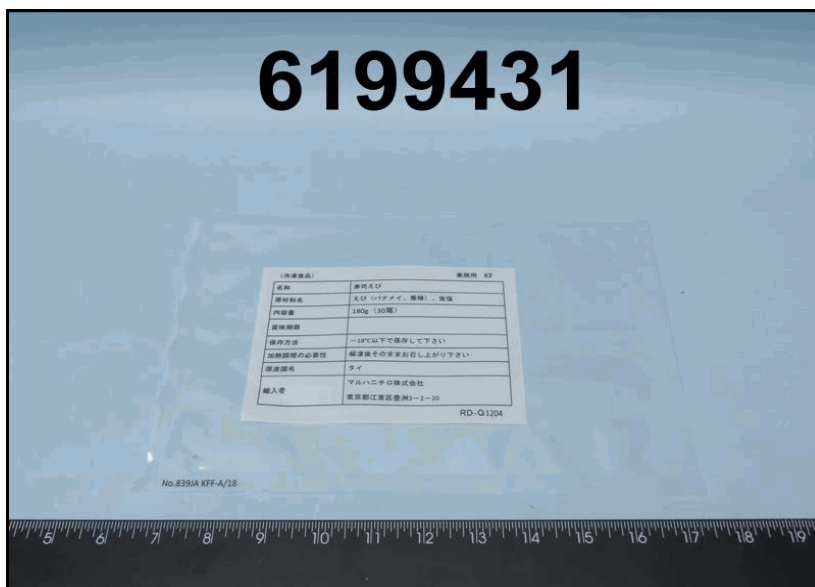
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SAMPLE/ATTACHMENT PICTURE



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

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