

Test Report No. 5909320

Date : 7-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 : 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. : 6218538
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 pack
Sample Receiving Date : 30-May-2024
Testing Period : 30-May-2024 to 7-Jun-2024

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

Signed for and on behalf of

SGS (Thailand) Ltd.

Rutchporn 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 |
|--|------------|
| European Commission Regulation (EU) No 10/2011 and its amendment | -- |
| 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 Meta## | 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.
3. ## ; The decision rules based on the requested specification or standard.

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TEST RESULTS

European Commission Regulation (EU) No 10/2011 and its amendment

a) Overall migration

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/dm ²) | Reporting Limit (mg/dm ²) | Permissible Limit (mg/dm ²) |
|------------------------|---------------------------|-------------------------------------|--|--|
| 3% Acetic Acid (W/V) | 1 hour at 100 Degree C | ND | 3.0 | 10 |
| 10% Ethanol (V/V) | 1 hour at 100 Degree C | ND | 3.0 | 10 |
| 20% Ethanol (V/V) | 1 hour at 100 Degree C | ND | 3.0 | 10 |
| Rectified Olive Oil*** | 1 hour at 100 Degree C | ND | 3.0 | 10 |
| Comment | -- | PASS | -- | -- |

Sample Description :

1. Clear plastic bag with multicolor printed (inside)

Note :

1. mg/dm² = milligram per square decimeter
2. Degree C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Analytical tolerance of olive oil simulant is 3mg/dm².
3. Test condition & simulant were specified by client.
4. The ratio of surface area to volume is 20 dm² per 1 kg of foodstuff in contact with.
5. The product is single-use as specified by client.
6. 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

b) Specific migration of heavy metal

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.
Ammonium was analyzed by UV-Vis Spectrophotometer.
Simulant Used: 3% acetic acid (w/v)
Test Condition: 100 Degree C for 1 hours (1st Migration)

| 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 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 | -- | -- |

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| Test Item | Result (1) (mg/kg) (1st migration) | Reporting Limit (mg/kg) |
|------------------------------------|--|-------------------------|
| Specific Migration of Ammonium | ND | 1 |
| Specific Migration of Calcium*** | ND | 1 |
| Specific Migration of Magnesium*** | ND | 1 |
| Specific Migration of Potassium*** | ND | 1 |
| Specific Migration of Sodium*** | ND | 1 |

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
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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 product is single-use as specified by client.
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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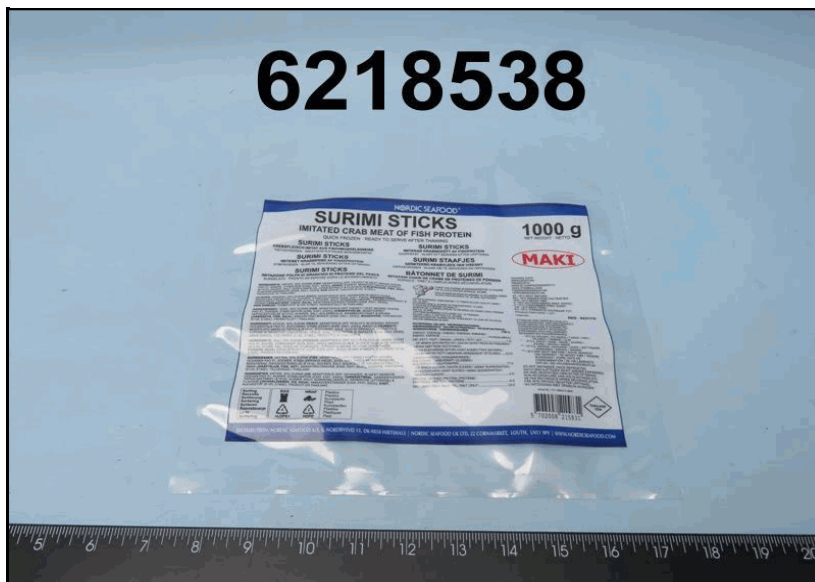
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SAMPLE/ATTACHMENT PICTURE



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

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