

Test Report No. 5851685

Date : 2-Apr-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 : OPP/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. : 6138280
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 2-Apr-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) Overall migration | |
| 3% Acetic Acid (W/V) | PASS |
| 10% Ethanol (V/V) | PASS |
| 20% Ethanol (V/V) | PASS |
| Rectified Olive Oil | PASS |
| MPPO For dry food | PASS |
| b) Specific Migration of Heavy Metal | PASS |
| c) clause 4(5) Visible Color Migration | 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) 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 ²) | Reporting Limit (mg/dm ²) | Permissible Limit (mg/dm ²) |
|---|---------------------------|-------------------------------------|--|--|
| 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 |
| 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 | -- | -- |

Sample Description :

(1) Clear plastic bag (inside)

Note :

1. mg/dm² = 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 1 dm² per 4 g of MPPO in contact with.
3. The ratio of surface area to volume is 20 dm² per 1 kg of foodstuff in contact with.
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.
5. The test result have been extracted from report number 5851675

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TEST RESULTS

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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.

Simulant Used: 3% acetic acid (w/v)

Test Condition: 40 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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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. Clear plastic bag (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.
4. The test result have been extracted from report number 5851675

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TEST RESULTS

c) clause 4(5) Visible Color Migration*

Method : With reference to Resolution AP (89) 1 and Kunststoffe im Lebensmittelverkehr, Part B II IX.

| Simulant Used | Result (1) | Requirement |
|----------------------|---------------------------|-------------------|
| 3% Acetic Acid (W/V) | No color release observed | No colour release |
| 20% Ethanol (V/V) | No color release observed | No colour release |
| Coconut Oil | No color release observed | No colour release |
| Comment | PASS | -- |

Sample Description :

1. Clear plastic bag (inside)

Note : 1. Requirement is according to Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022) :
Qualities or standard for container made from plastic ; clause 4(5).

Remark:Test(s) marked * on this report are not included in the NSC-ONSC accreditation scope.

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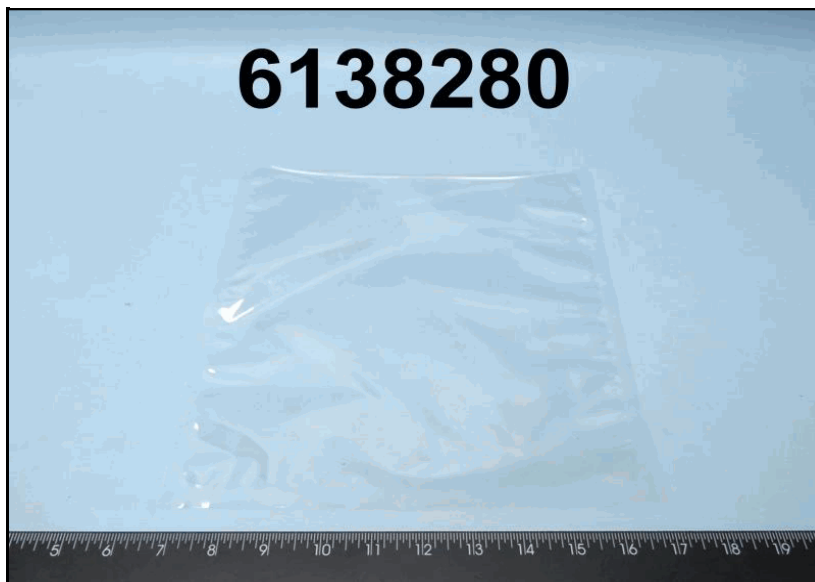
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SAMPLE/ATTACHMENT PICTURE



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

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