

Test Report No. 5214078

Date : 21-Mar-2022

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Client : Excel Packaging Co.,Ltd.
135,135/1-2 Moo 9 Soi Kratoomlom 9 Puthamonthon Sai 4 Road
Kratoomlom,Sampran Nakornpathom 73220 Thailand

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

Sample Name : PS (Sheet & Tray)
Sample Description : OPS
Color : Clear

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

SGS Sample No. : 5429874
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 pack
Sample Receiving Date : 11-Mar-2022
Testing Period : 11-Mar-2022 to 21-Mar-2022

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

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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.295) B.E. 2548 (2005) : Qualities or standard for container made from plastic a) Polystyrene (PS) | -- |
| 1. Lead content | PASS |
| 2. Cadmium content | PASS |
| 3. Heavy metal (as lead) in 4% concentrated acetic acid extraction | PASS |
| 4. Quantity of potassium Permanganate Consumed | PASS |
| 5. Residue after Evaporation Test | PASS |
| 6. Migration of color Extraction | PASS |
| 7. Volatile substances | PASS |
| (Styrene,Toluene,Ethylbenzene,Isopropylbenzene and n-Propylbenzene) | |

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.

**Signed for and on behalf of
SGS (Thailand) Limited**



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

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NSC-TISI-TIS 17025
Testing 0013

SGS (Thailand) Limited

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TEST RESULTS

Notification of the Ministry of Public Health (No.295) B.E. 2548 (2005) : Qualities or standard for container made from plastic.

a) Polystyrene (PS)

Qualities and standard of plastic

Method : With reference to TIS 656: 2556. Analysis was performed by ICP-OES.

| Details | Result (1) (mg/kg) | Limit of Quantitative (mg/kg) | Permissible Limit (mg/kg) |
|--------------------|-----------------------|----------------------------------|------------------------------|
| Lead content*** | <2 | 2.0 | 100 |
| Cadmium content*** | <2 | 2.0 | 100 |

Sample Description :

1. Clear plastic sheet

Note :

1. mg/kg = milligram per kilogram
2. < = Less than

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TEST RESULTS
Qualities and standard of dissemination

Method : With reference to TIS 656: 2556.

| Details | Test Condition [^] | Result (1) (mg/dm ³) | Limit of Quantitative (mg/dm ³) | Permissible Limit (mg/dm ³) |
|---|---|-------------------------------------|--|--|
| Heavy metal (calculated as lead) in 4% concentrated acetic acid extraction*** | 30 minute at 95 degree C | <1 | -- | 1 |
| Potassium permanganate used for reaction in water extraction*** | 30 minute at 95 degree C | <1 | 1.0 | 10 |
| Residue substances which is evaporate in water*** | 30 minute at 95 degree C | <3 | 3.0 | 30 |
| Residue substances which is evaporate in 4% concentrated acetic acid*** | 30 minute at 95 degree C | <3 | 3.0 | 30 |
| Residue substances which is evaporate in 20% concentrated alcohol*** | 30 minute at 95 degree C | <3 | 3.0 | 30 |
| Residue substances from volatile matters in normal heptane*** | Room temperature (1 hr. at 25 degree C) | <3 | 3.0 | 240 |

Sample Description :

1. Clear plastic sheet

Note :

1. mg/dm³ = milligram per cubic decimeter
2. Degree C = degree Celsius
3. < = Less than

Remark :

1. ^ = In case of the use at temperature higher than 100 degree Celsius

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NSC-TISI-TIS 17025
Testing 0013

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TEST RESULTS

Qualities and standard of dissemination

Test Method : With reference to TIS 655 -1 : 2553

| Details | Test Condition [^] | Result (1) | Permissible Limit |
|---|--|--------------------------|-------------------|
| Migration of color extract by water*** | 30 minute at 95 degree C | Negative (See Note 2) | Negative |
| Migration of color extract by 4% concentrated acetic acid*** | 30 minute at 95 degree C | Negative (See Note 2) | Negative |
| Migration of color extract by 20% concentrated alcohol*** | 30 minute at 60 degree C | Negative (See Note 2) | Negative |
| Migration of color extract by normal heptanes*** | Room temperature (1 hr. at 25 degree C) | Negative (See Note 2) | Negative |

Sample Description :

1. Clear plastic sheet

Note :

1. Degree C = degree Celsius
2. "Negative" mean it's not presence of color migration/ "Positive" mean it's presence of color migration

Remark :

1. ^ = In case of the use at temperature higher than 100 degree Celsius

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TEST RESULTS
Qualities and standard of plastic

Method : With reference to TIS 656 - 2556. Analysis was performed by GC-FID.

Polystyrene - Volatile substances (Styrene, Toluene, Ethylbenzene, Isopropylbenzene and n-Propylbenzene)***

| Volatile substances | Result (1) (mg/kg) | Limit of Quantitation (mg/kg) | Limit (mg/kg) |
|---------------------|--------------------|-------------------------------|---------------|
| Styrene | 646 | 100 | 1000 |
| Toluene | <100 | 100 | -- |
| Ethylbenzene | <100 | 100 | 1000 |
| Isopropylbenzene | <100 | 100 | -- |
| n-propylbenzene | <100 | 100 | -- |
| Total | 646 | -- | 2000 |
| Comment | PASS | -- | -- |

Sample Description :

1. Clear plastic sheet

Note :

1. mg/kg = milligram per kilogram
2. < = Less than

Remark: The test item(s) marked *** on test report is/are analyzed at SGS (Thailand) Limited, address: 41/16-20 and 41/23 Soi Rama III 59, Rama III road, Chongnonsee, Yannawa, Bangkok.

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SAMPLE/ATTACHMENT PICTURE



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

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Test Report 5210103

Date : 18-Mar-2022

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Client : Excel Packaging Co.,Ltd.

**135,135/1-2 Moo 9 Soi Kratoomlom 9 Puthamonthon Sai 4 Road
Kratoomlom, Sampran Nakornpathom 73220 Thailand**

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

Sample Name : PS (Sheet & Tray)
Sample Description : OPS
Color : Clear

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

SGS Sample No. : 5429875
Sample Condition : Sample is contained in a plastic bag.
Qty.Submitted : 1 pack
Date Received : 11-Mar-2022 Date Commenced : 12-Mar-2022

| Test Items | Method | Results | Units |
|---------------------------------------|--|--------------|-----------|
| Coliforms | Compendium of methods for the examination of foods, 5th edition, 2015, chapter 9 | Not detected | Per piece |
| <i>E.coli</i> | Compendium of methods for the examination of foods, 5th edition, 2015, chapter 9 | Not detected | Per piece |
| *Enterobacteriaceae | ISO 21528-1: 2017 | Not detected | Per piece |
| <i>Staphylococcus aureus</i> | Compendium of methods for the examination of foods, 5th edition, 2015, chapter 39 | Not detected | Per piece |
| <i>Bacillus cereus</i> | Compendium of methods for the examination of foods, 5th edition, 2015, chapter 31 | Not detected | Per piece |
| <i>Salmonella spp.</i> | ISO 6579-1 : 2017 | Not detected | Per piece |
| <i>Clostridium perfringens</i> | Compendium of methods for the examination of foods, 5th edition, 2015, chapter 33 | Not detected | Per piece |
| * <i>Streptococcus spp. (group D)</i> | Based on Compendium of methods for the examination of foods, 5th edition, 2015, chapter 10 | Less than 1 | CFU/piece |

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| Test Items | Method | Results | Units |
|-------------------|------------------|-------------|-----------|
| Total Plate Count | ISO 4833-1: 2013 | Less than 1 | CFU/piece |

Test(s) marked * on this Report are not included in the NSC-ONSC Accreditation Scope.

**Signed for and on behalf of
SGS (Thailand) Limited**



**Jirapan Vilaipol
Microbiological Lab Manager**

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

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