

**Test Report No.** 5042671

**Date :** 17-Sep-2021

**Page 1 of 7**

**Client : Excel Superpack. Co.,Ltd.**  
**79,79/1-2 Moo 12 Soi Pacharat-kratoomlom Puthamonthon 5 Rd.**  
**Raikhing Sampran Nakornpathom 73210 Thailand**

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

Sample Name : PP(Sheet & Tray)  
Sample Description : PP  
Color : Black

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

SGS Sample No. : 5244742  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 1 pack  
Sample Receiving Date : 9-Sep-2021  
Testing Period : 9-Sep-2021 to 17-Sep-2021

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

Excel Group

"Any holder of this document is advised that should client or third party information be supplied with respect to the goods or sample, SGS may, at its discretion, attached or indicate such information to the report but SGS makes no warranties or accepts no liable for the veracity or lack thereof of such Information."

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 30 days only.

**Test Report No.** 5042671

**Date :** 17-Sep-2021

**Page 2 of 7**

**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) :<br>Qualities or standard for container made from plastic<br>a) Polypropylene (PP) | --          |
| 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. Pathogenic microorganisms                                                                                                                                | See results |

**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 Hardgood**

Excel Group

"Any holder of this document is advised that should client or third party information be supplied with respect to the goods or sample, SGS may, at its discretion, attached or indicate such information to the report but SGS makes no warranties or accepts no liable for the veracity or lack thereof of such Information."

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 30 days only.

Test Report No. 5042671

Date : 17-Sep-2021

Page 3 of 7

## TEST RESULTS

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

### a) Polypropylene (PP)

#### Qualities and standard of plastic

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

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

Sample Description :

1. Black plastic sheet

Note :

1. mg/kg = milligram per kilogram

2. < = Less than

# Excel Group

"Any holder of this document is advised that should client or third party information be supplied with respect to the goods or sample, SGS may, at its discretion, attached or indicate such information to the report but SGS makes no warranties or accepts no liable for the veracity or lack thereof of such Information."

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 30 days only.



**Test Report No.** 5042671

**Date :** 17-Sep-2021

**Page 4 of 7**
**TEST RESULTS**
**Qualities and standard of dissemination**

Method : With reference to TIS 656: 2556.

| Details                                                                    | Test Condition**                        | Result (1)<br>(mg/dm3) | Limit of Quantitative<br>(mg/dm3) | Permissible Limit<br>(mg/dm3) |
|----------------------------------------------------------------------------|-----------------------------------------|------------------------|-----------------------------------|-------------------------------|
| 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                               | 30                            |

**Sample Description :**

1. Black 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

"Any holder of this document is advised that should client or third party information be supplied with respect to the goods or sample, SGS may, at its discretion, attached or indicate such information to the report but SGS makes no warranties or accepts no liable for the veracity or lack thereof of such Information."

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 30 days only.

Test Report No. 5042671

Date : 17-Sep-2021

Page 5 of 7

## 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<br>(See Note 2) | Negative          |
| Migration of color extract by 4% concentrated acetic acid | 30 minute at 95 degree C                   | Negative<br>(See Note 2) | Negative          |
| Migration of color extract by 20% concentrated alcohol    | 30 minute at 95 degree C                   | Negative<br>(See Note 2) | Negative          |
| Migration of color extract by normal heptanes             | Room temperature<br>(1 hr. at 25 degree C) | Negative<br>(See Note 2) | Negative          |

### Sample Description :

1. Black 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

# Excel Group

"Any holder of this document is advised that should client or third party information be supplied with respect to the goods or sample, SGS may, at its discretion, attached or indicate such information to the report but SGS makes no warranties or accepts no liable for the veracity or lack thereof of such Information."

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 30 days only.

Test Report No. 5042671

Date : 17-Sep-2021

Page 6 of 7

# TEST RESULTS

## Pathogenic microorganisms

| 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: 2004                                                                  | 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</i> spp.                | 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</i> spp. (group D) | Based on Compendium of Methods for the Microbiological Examination of Foods (APHA) | Less than 1  | CFU/piece |
| 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"

"Any holder of this document is advised that should client or third party information be supplied with respect to the goods or sample, SGS may, at its discretion, attached or indicate such information to the report but SGS makes no warranties or accepts no liability for the veracity or lack thereof of such Information."

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 30 days only.



Test Report No. 5042671

Date : 17-Sep-2021

Page 7 of 7

## SAMPLE/ATTACHMENT PICTURE



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

# Excel Group

"Any holder of this document is advised that should client or third party information be supplied with respect to the goods or sample, SGS may, at its discretion, attached or indicate such information to the report but SGS makes no warranties or accepts no liable for the veracity or lack thereof of such Information."

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 30 days only.