

**Test Report No.** 4519573

**Date :** 25-Feb-2020

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**Client : Prepack Thailand Co., Ltd.**  
**30/145,Moo1,**  
**Khok Kham,Muang, Samutsakorn 74000 Thailand**

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

Sample Name : OPP / MCPP (S)  
Sample Description : Plastic Laminate  
Manufacturer/Vendor : Prepack Thailand Co., Ltd.  
Country of Origin : Thailand

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

SGS Sample No. : 4668539  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 1 bag

Sample Receiving Date : 4-Feb-2020  
Testing Period : 4-Feb-2020 to 25-Feb-2020

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) :<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       |

Remark: Test results in this report are applicable for the item tested and reflects the tested sample as received.

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



**Rutchuporn Mungsom  
Laboratory manager - Toy and Hardgood**

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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) 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. Metallized/clear plastic with multicolor printed

**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)<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 60 degree C                | <1                     | --                                | 1                             |
| Potassium permanganate used for reaction in water extraction               | 30 minute at 60 degree C                | <1                     | 1.0                               | 10                            |
| Residue substances which is evaporate in water                             | 30 minute at 60 degree C                | <3                     | 3.0                               | 30                            |
| Residue substances which is evaporate in 4% concentrated acetic acid       | 30 minute at 60 degree C                | <3                     | 3.0                               | 30                            |
| Residue substances which is evaporate in 20% concentrated alcohol          | 30 minute at 60 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                               | 150                           |

**Sample Description :**

1. Clear plastic (inside)

**Note :**

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

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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 60 degree C                   | Negative<br>(See Note 2) | Negative          |
| Migration of color extract by 4% concentrated acetic acid | 30 minute at 60 degree C                   | Negative<br>(See Note 2) | Negative          |
| Migration of color extract by 20% concentrated alcohol    | 30 minute at 60 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. Clear plastic (inside)

Note :

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

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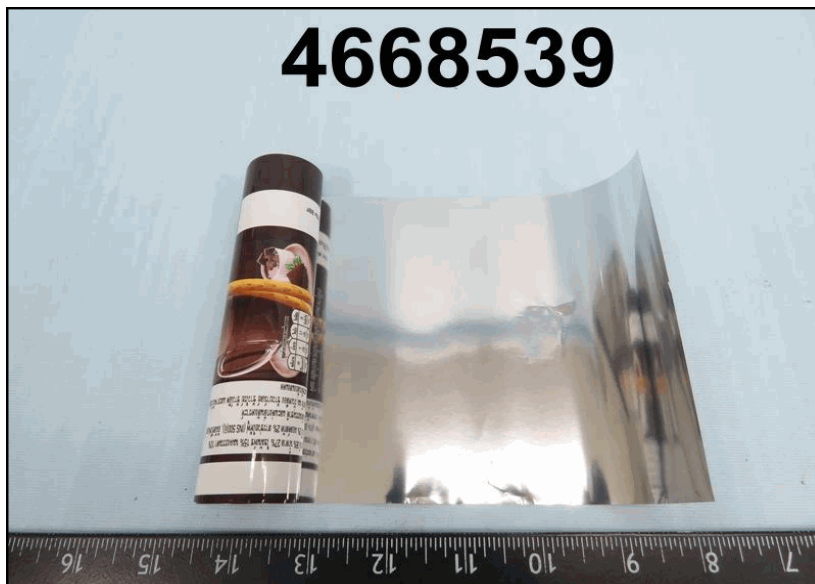
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### SAMPLE/ATTACHMENT PICTURE



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

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