

Test Report No. 4512772

Date : 19-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 : PET/LLDPE (A)
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. : 4668486
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 19-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 |
|---|------------|
| (1)Notification of the Ministry of Public Health (No.295) B.E. 2548 (2005) : Qualities or standard for container made from plastic a) Polyethylene (PE) | -- |
| 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 |
| (2) Additional request by client's | |
| 1. Antimony in 4% concentrated acetic acid extraction | SEE RESULT |
| 2. Germanium in 4% concentrated acetic acid extraction | SEE RESULT |

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

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

a) Polyethylene (PE)

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 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) (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 | 30 |

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 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 95 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 (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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TEST RESULTS

(2) Additional request by client's

Qualities and standard of dissemination

Method : With reference to TIS 656: 2556

| Details | Test Condition | Result (1) (mg/dm3) | Limit of Quantitative (mg/dm3) | Permissible Limit** (mg/dm3) |
|-----------|-----------------------------|------------------------|-----------------------------------|---------------------------------|
| Antimony | 30 minute at 95 degree C | <0.02 | 0.02 | 0.05 |
| Germanium | 30 minute at 95 degree C | <0.02 | 0.02 | 0.10 |

Sample Description :

1. Clear plastic (inside)

Note :

1. mg/dm3 = milligram per cubic decimeter
2. Degree C = degree Celsius
3. < = Less than
4. **Permissible limit is quoted from Notification of the Ministry of Public Health (No.295) B.E. 2548 (2005) :Qualities or standard for container made from plastic, Polyethylene terephthalate (PET)

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SAMPLE/ATTACHMENT PICTURE



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

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