

**Test Report No.** 3608401

**Date :** 5-Jul-2017

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**Client : Hachanna Co.,Ltd**  
**344/26 Sathupradit26 , Sathupradit Rd.,**  
**Bangpongpang, Yannawa District Bangkok 10120 Thailand**

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

Sample Name : Melamine Plate  
 Sample No. : 3687194  
 Sample Condition : Sample is contained in a box.  
 Quantity Submitted : 1 pack  
 Color : Yellow/White/Brown  
 Country of Origin : China  
 Sample Receiving Date : 31-May-2017  
 Testing Period : 31-May-2017 to 5-Jul-2017

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

**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) Melamine	--
1. Lead content	PASS
2. Cadmium content	PASS
3. Phenol in water extraction	PASS
4. Formaldehyde release	PASS
5. Heavy Metal (as Lead) in 4% acetic acid extraction	PASS
6. Quantity of Potassium Permanganate Consumed	PASS
7. Residue after Evaporation Test	PASS
8. 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 Mounsom**  
**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) Melamine**

**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. Cream melamine with yellow / white / brown printed

**Note :**

1. mg/kg = miligram 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 <sup>3</sup> )	Limit of Quantitative (mg/dm <sup>3</sup> )	Permissible Limit (mg/dm <sup>3</sup> )
Phenol in water extraction	30 minute at 60 degree C	Negative (See Note 4)	--	Negative
Formaldehyde in water extraction	30 minute at 60 degree C	Negative (See Note 5)	--	Negative
Heavy metal (calculated as lead) in 4% concentrated acetic acid extraction	30 minute at 60 degree C	<1	1.0	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 4% concentrated acetic acid	30 minute at 60 degree C	14	3.0	30

**Sample Description :**

1. Cream melamine with yellow / white / brown printed

**Note :**

1. mg/dm<sup>3</sup> = milligram per cubic decimeter
2. Degree C = degree Celsius
3. < = Less than
4. "Negative" mean the result is less than 5 mg/dm<sup>3</sup>/ "Positive" mean the result is more than 5 mg/dm<sup>3</sup>.
5. "Negative" mean the color of sample solution is not deeper than the color of contrast solution./ "Positive" mean the color of sample solution is deeper than the color of contrast solution.

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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 4% concentrated acetic acid	30 minute at 60 degree C	Negative (See Note 2)	Negative

**Sample Description :**

1. Cream melamine with yellow / white / brown printed

**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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**SAMPLE/ATTACHMENT PICTURE**



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

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