





SGS (Thailand) Limited

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Test Report No. 5362654 Date: 12-Sep-2022

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 : PP (Sheet & Tray)

Sample Description : PP Color : Natural

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

SGS Sample No. : 5595109

Sample Condition : Sample is contained in a plastic bag.

Quantity Submitted : 1 pack

Sample Receiving Date : 6-Sep-2022

Testing Period : 6-Sep-2022 to 12-Sep-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.435) B.E. 2565 (2022) (List no.2 table 1 and 2): Qualities or standard for container made from plastic;

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

- 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) Ltd.



Rutchuporn Moungsom Laboratory manager - Toy and Hard goods

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TEST RESULTS

Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022) (List no.2 table 1 and 2): 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) (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. Natural plastic sheet

Note:

1. mg/kg = miligram per kilogram

2. < = Less than

3. The test item(s) marked *** on test report is/are analyzed at SGS (Thailand) Limited, address: 10, 10/1 - 4 and 12 Soi Rama III S. 59, Chong Nonsi, Yan Nawa, Bangkok.

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TEST RESULTS

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)
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. Natural 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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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. Natural 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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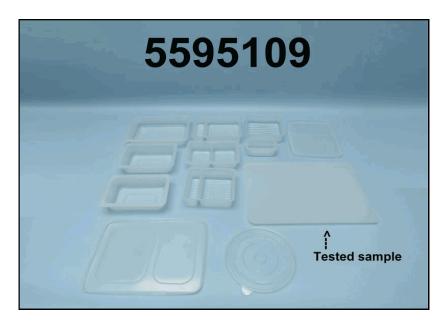


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SAMPLE/ATTACHMENT PICTURE



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