

Test Report No. 5687512

Date : 2-Oct-2023

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**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 : PS (Sheet & Tray)
Sample Description : PS
Color : Natural

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

SGS Sample No. : 5954387
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 pack
Sample Receiving Date : 1-Sep-2023
Testing Period : 1-Sep-2023 to 15-Sep-2023

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) Polystyrene (PS)	--
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. Volatile substances (Styrene, Toluene, Ethylbenzene, Isopropylbenzene and n-Propylbenzene)	PASS
8. 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) Ltd.**

**Rutchuporn Mungsom
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) Polystyrene (PS)

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 = milligram per kilogram
- 2. < = Less than

Remark: 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/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)	138	3.0	240

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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TEST RESULTS

Qualities and standard of plastic

Method : With reference to TIS 656 - 2556. Analysis was performed by GC-FID.

Polystyrene - Volatile substances (Styrene, Toluene, Ethylbenzene, Isopropylbenzene and n-Propylbenzene)***

Volatile substances	Result (1) (mg/kg)	Limit of Quantitation (mg/kg)	Limit (mg/kg)
Styrene	633	100	1000
Toluene	<100	100	--
Ethylbenzene	<100	100	1000
Isopropylbenzene	<100	100	--
n-propylbenzene	<100	100	--
Total	633	--	2000
Comment	PASS	--	--

Sample Description :

- 1. Natural plastic sheet

Note :

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- 2. < = Less than

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TEST RESULTS

Pathogenic microorganisms

Test Items	Method	Results	Units
<i>Salmonella spp.</i> ***	ISO 6579-1 : 2017	Not detected	Per 50 square centimeter
<i>Staphylococcus aureus</i> ***	Compendium of methods for the examination of foods,5th edition,2015,chapter 39	Not detected	Per 50 square centimeter
<i>Clostridium perfringens</i> ***	Compendium of methods for the examination of foods,5th edition,2015,chapter 33	Not detected	Per 50 square centimeter
<i>Bacillus cereus</i> ***	Compendium of methods for the examination of foods,5th edition,2015,chapter 31	Not detected	Per 50 square centimeter
<i>E.coli</i> ***	Compendium of methods for the examination of foods,5th edition,2015,chapter 9	Not detected	Per 50 square centimeter
Total Plate Count***	ISO 4833-1: 2013	Less than 1	CFU/50 square centimeter

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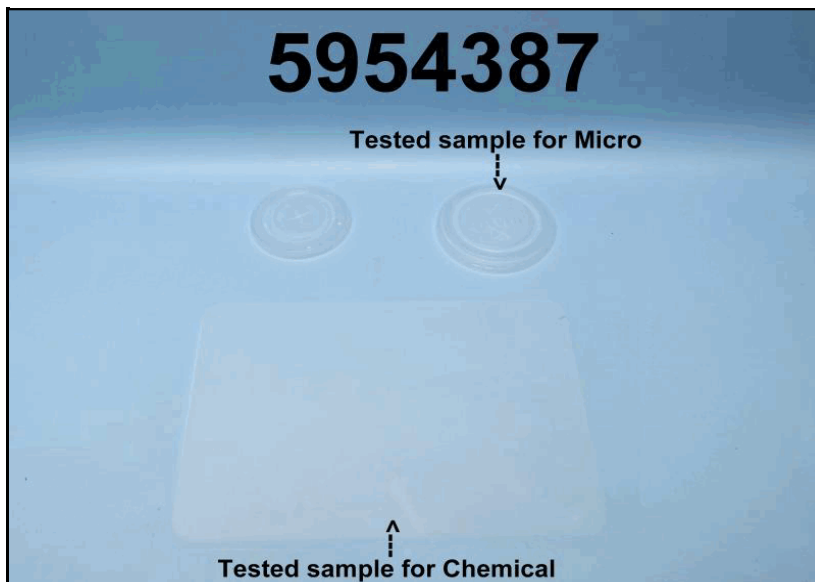
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SAMPLE/ATTACHMENT PICTURE



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

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