

Test Report No. 5041721

Date : 16-Sep-2021

Page 1 of 8

Client : Excel Superpack. Co.,Ltd.
79,79/1-2 Moo 12 Soi Pacharat-kratoomlom Puthamonthon 5 Rd.
Raikhing Sampran Nakornpathom 73210 Thailand

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

Sample Name : PS (Sheet & Tray)
Sample Description : PS
Color : Gold

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

SGS Sample No. : 5244748
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 pack
Sample Receiving Date : 9-Sep-2021
Testing Period : 9-Sep-2021 to 16-Sep-2021

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

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Test Report No. 5041721

Date : 16-Sep-2021

Page 2 of 8

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) 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	FAIL
7. Volatile substances	PASS
(Styrene,Toluene,Ethylbenzene,Isopropylbenzene and n-Propylbenzene)	
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) Limited



Rutchuporn Mounsom
Laboratory manager - Toy and Hardgood

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Test Report No. 5041721

Date : 16-Sep-2021

Page 3 of 8

TEST RESULTS

Notification of the Ministry of Public Health (No.295) B.E. 2548 (2005) : 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. Gold plastic sheet

Note :

1. mg/kg = milligram per kilogram
2. < = Less than

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Test Report No. 5041721

Date : 16-Sep-2021

Page 4 of 8
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)	71	3.0	240

Sample Description :

1. Gold 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
2. ^ = The color plastic was removed after simulation of normal heptane.

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Test Report No. 5041721

Date : 16-Sep-2021

Page 5 of 8

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)	Positive (See Note 2)	Negative

Sample Description :

1. Gold 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
2. ^ = The color plastic was removed after simulation of normal heptane.

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Test Report No. 5041721

Date : 16-Sep-2021

Page 6 of 8

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	517	100	1000
Toluene	<100	100	--
Ethylbenzene	<100	100	1000
Isopropylbenzene	<100	100	--
n-propylbenzene	<100	100	--
Total	517	--	2000
Comment	PASS	--	--

Sample Description :

1. Gold plastic sheet

Note :

1. mg/kg = milligram per kilogram

2. < = Less than

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Test Report No. 5041721

Date : 16-Sep-2021

Page 7 of 8

TEST RESULTS

Pathogenic microorganisms

Test Items	Method	Results	Units
Coliforms	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 9	Not detected	Per piece
<i>E. coli</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 9	Not detected	Per piece
*Enterobacteriaceae	ISO 21528-1: 2004	Not detected	Per piece
<i>Staphylococcus aureus</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 39	Not detected	Per piece
<i>Bacillus cereus</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 31	Not detected	Per piece
<i>Salmonella</i> spp.	ISO 6579-1 : 2017	Not detected	Per piece
<i>Clostridium perfringens</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 33	Not detected	Per piece
* <i>Streptococcus</i> spp. (group D)	Based on Compendium of Methods for the Microbiological Examination of Foods (APHA)	Less than 1	CFU/piece
Total Plate Count	ISO 4833-1: 2013	Less than 1	CFU/piece

"Test(s) marked * on this report are not included in the NSC-ONSC accreditation scope"

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Test Report No. 5041721

Date : 16-Sep-2021

Page 8 of 8

SAMPLE/ATTACHMENT PICTURE



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

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