

Test Report No. 5041722

Date : 16-Sep-2021

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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 : Brown

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

SGS Sample No. : 5244747
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 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	PASS
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 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. Brown plastic sheet

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/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)	65	3.0	240

Sample Description :

1. Brown 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 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. Brown 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 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	473	100	1000
Toluene	<100	100	--
Ethylbenzene	<100	100	1000
Isopropylbenzene	<100	100	--
n-propylbenzene	<100	100	--
Total	<500	--	2000
Comment	PASS	--	--

Sample Description :

1. Brown plastic sheet

Note :

1. mg/kg = milligram per kilogram

2. < = Less than

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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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SAMPLE/ATTACHMENT PICTURE



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

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