

Test Report No. 5482557

Date : 7-Feb-2023

Page 1 of 6

**Client : Hong Thai Food Packaging Co.,Ltd. (Branch no. 00001)
59 Soi La-Salle 19, Bang-na, Bangkok 10260 Thailand**

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

Sample Name : Paper Cup (CSP1S/190G+PE18M)
Sample Description : CSP1S/190g+PE18m
Color : White

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

SGS Sample No. : 5728903
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 pack
Sample Receiving Date : 20-Jan-2023
Testing Period : 20-Jan-2023 to 7-Feb-2023

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

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5184270

Test Report No. 5482557

Date : 7-Feb-2023

Page 2 of 6

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) Polyethylene (PE)	
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 Mounksom
Laboratory manager - Toy and Hard goods**

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5184270

Test Report No. 5482557

Date : 7-Feb-2023

Page 3 of 6

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) Polyethylene (PE)

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. White paper/ clear plastic cup

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.

5184270

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Test Report No. 5482557

Date : 7-Feb-2023

Page 4 of 6

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 60 degree C	<1	--	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 water	30 minute at 60 degree C	<3	3.0	30
Residue substances which is evaporate in 4% concentrated acetic acid	30 minute at 60 degree C	<3	3.0	30
Residue substances which is evaporate in 20% concentrated alcohol	30 minute at 60 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	150

Sample Description :

1. White paper/ clear plastic cup (inside)

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 not higher than 100 degree Celsius

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5184270

Test Report No. 5482557

Date : 7-Feb-2023

Page 5 of 6

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 60 degree C	Negative (See Note 2)	Negative
Migration of color extract by 4% concentrated acetic acid	30 minute at 60 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. White paper/ clear plastic cup (inside)

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 not higher than 100 degree Celsius

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5184270

Test Report No. 5482557

Date : 7-Feb-2023

Page 6 of 6

SAMPLE/ATTACHMENT PICTURE



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

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