

Test Report No. 4275667

Date : 20-Jun-2019

Client : Universe Pack Co.,Ltd
10/12 Moo3 Petchkasem Rd.
Soi Watthiendad Aomyai Sampran Nakornpathom 73160 Thailand

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

Sample Name : Plastic PP

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

SGS Sample No. : 4423844

Sample Condition : Sample is contained in a plastic bag.

Quantity Submitted : 1 bag

Sample Receiving Date : 13-Jun-2019

Testing Period : 13-Jun-2019 to 20-Jun-2019

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
Notification of the Ministry of Public Health (No.295) B.E. 2548 (2005) :
Qualities or standard for container made from plastic
a) Polypropylene (PP)

Conclusion

--

1. Lead content
2. Cadmium content
3. Heavy metal (as lead) in 4% concentrated acetic acid extraction
4. Quantity of potassium Permanganate Consumed
5. Residue after Evaporation Test
6. Migration of color Extraction
7. Pathogenic microorganisms

PASS
PASS
PASS
PASS
PASS
PASS
See results

Remark: Test results in this report are applicable for the item tested and reflects the tested sample as received.

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) 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. Clear plastic

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/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 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. Clear plastic

Note :

1. mg/dm³ = milligram per cubic decimeter
2. Degree C = degree Celsius
3. < = Less than




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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 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. Clear plastic

Note :

1. Degree C = degree Celsius
2. "Negative" mean it's not presence of color migration/ "Positive" mean it's presence of color migration



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TEST RESULTS

Pathogenic microorganisms

Test Items	Method	Results	Units
<i>E.coli</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 9	Not detected	Per 100 square centimeter
<i>Staphylococcus aureus</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 39	Not detected	Per 100 square centimeter
<i>Clostridium perfringens</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 33	Not detected	Per 100 square centimeter
<i>Listeria monocytogenes</i>	ISO 11290-1: 2017	Not detected	Per 100 square centimeter
<i>Bacillus cereus</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 31	Not detected	Per 100 square centimeter
* <i>Streptococcus</i> spp.(group D)	Based on Compendium of Methods for the Microbiological Examination of Foods (APHA)	Less than 1	CFU/100 square centimeter
<i>Salmonella</i> spp.	ISO 6579-1 : 2017	Not detected	Per 100 square centimeter

"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 *****


Agrisens Food
Agrisens Food Co.,Ltd.



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