

Test Report No. 4254215

Date : 30-May-2019

Page 1 of 7

Client : Thai PET Resin Co.,Ltd.
18, Eastern Industrial Estate, Soi G-2 Prakornsongkroraj Road.
Muang Rayong 21150 Thailand

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

Sample Name : InnoPlus SA145T
Sample Description : PET Resin Cup
Color : Clear

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

SGS Sample No. : 4396795
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 2 pack

Sample Receiving Date : 21-May-2019
Testing Period : 21-May-2019 to 30-May-2019

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

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3955928

Test Report No. 4254215

Date : 30-May-2019

Page 2 of 7

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) Polyethylene terephthalate (PET)	--
1. Lead content	PASS
2. Cadmium content	PASS
3. Antimony in 4% concentrated acetic acid extraction	PASS
4. Germanium in 4% concentrated acetic acid extraction	PASS
5. Heavy metal (as lead) in 4% concentrated acetic acid extraction	PASS
6. Quantity of potassium Permanganate Consumed	PASS
7. Residue after Evaporation Test	PASS
8. Migration of color extraction	PASS
9. Pathogenic microorganisms	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 Moungsom
Laboratory manager - Toy and Hardgood**

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3955928

Test Report No. 4254215

Date : 30-May-2019

Page 3 of 7

TEST RESULTS

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

a) Polyethylene terephthalate (PET)

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 = miligram per kilogram

2. < = Less than

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3955928

Test Report No. 4254215

Date : 30-May-2019

Page 4 of 7
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)
Antimony	30 minute at 60 degree C	<0.02	0.02	0.05
Germanium	30 minute at 60 degree C	<0.02	0.02	0.10
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	7	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	30

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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3955928

Test Report No. 4254215

Date : 30-May-2019

Page 5 of 7

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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3955928

Test Report No. 4254215

Date : 30-May-2019

Page 6 of 7

TEST RESULTS

Pathogenic microorganisms

Test Items	Method	Results	Units
<i>Salmonella spp.</i>	ISO 6579-1 : 2017	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>Clostridium perfringens</i>	Compendium of methods for the examination of foods, 5th edition, 2015, chapter 33	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

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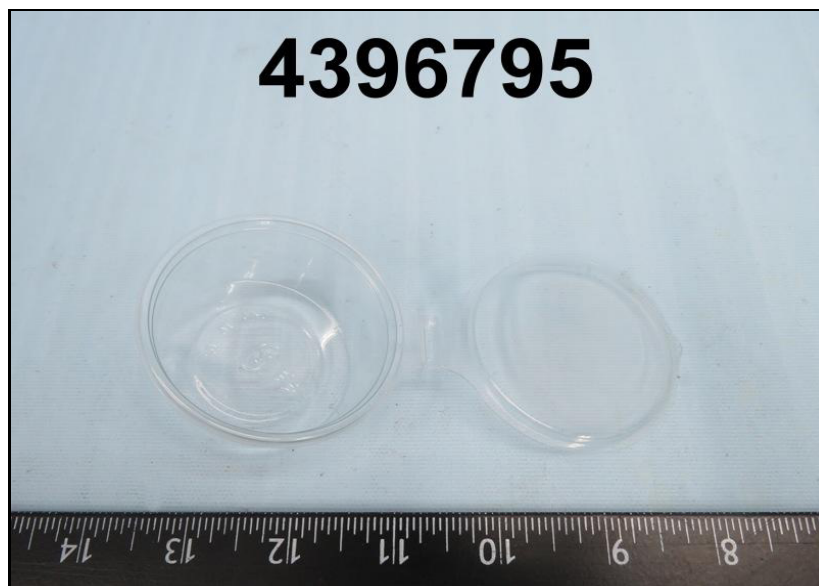
3955928

Test Report No. 4254215

Date : 30-May-2019

Page 7 of 7

SAMPLE/ATTACHMENT PICTURE



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

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