



NSC-TISI-TIS 17025
Testing 0013

SGS (Thailand) Limited

Test Report No. 4246870

Date : 23-May-2019

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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 SA135T
Sample Description : PET Resin Bottle
Color : Clear

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

SGS Sample No. : 4394415
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 1 pack

Sample Receiving Date : 16-May-2019
Testing Period : 16-May-2019 to 23-May-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) Polyethylene terephthalate (PET)

Conclusion

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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

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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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 = 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)
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	<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	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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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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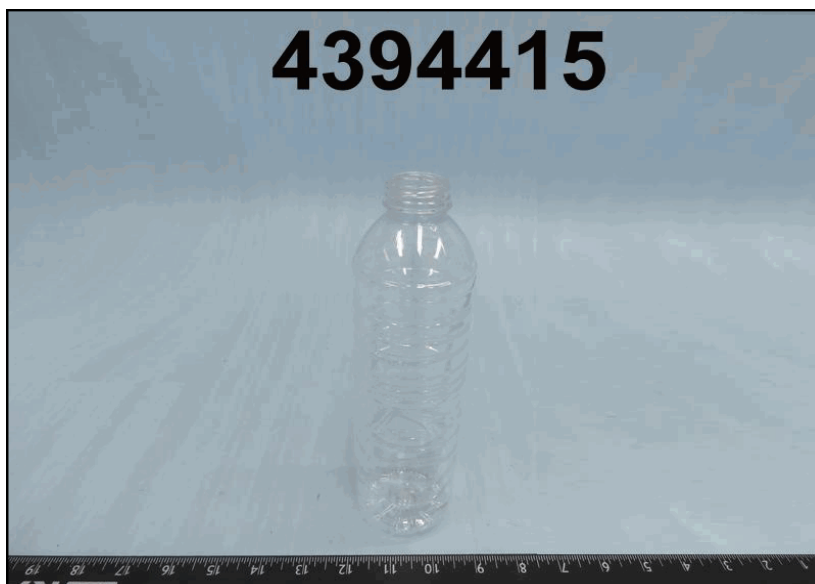
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SAMPLE/ATTACHMENT PICTURE



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

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