

**Test Report No.** 5195926

**Date :** 3-Mar-2022

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**Client : Prepack Thailand Co., Ltd.**  
**30/145,Moo1,**  
**Khok Kham, Muang Samutsakhon, Samutsakorn 74000 Thailand**

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

Sample Name : Milk Film (A)  
Sample Description : Plastic Film  
Manufacturer/Vendor : Prepack Thailand Co., Ltd.  
Country of Origin : Thailand

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

SGS Sample No. : 5407009  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 1 pack  
Sample Receiving Date : 18-Feb-2022  
Testing Period : 18-Feb-2022 to 3-Mar-2022

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 used for containing milk or milk product which type of plastic on contact side are a) Polyethylene or Ethylene 1-alkane copolymerized resin	--
1. Heavy Metal (as Lead) in Material	PASS
2. Arsenic content	PASS
3. Extracted substance by normal hexane	PASS
4. Substance dissolve in xylene	PASS
5. Heavy metal (calculated 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:**

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 Mungsom  
Laboratory manager - 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 used for containing milk or milk product which type of plastic on contact side are ;**

**a) Polyethylene or Ethylene 1-alkane copolymerized resin.**

**Qualities and standard of plastic**

Method: LBTY-14024 based on TIS 653 - 2554.

Details	Result (1) (mg/kg)	Permissible Limit (mg/kg)
Heavy Metal (calculated as lead) in Material***	Not more than 20	20

Sample Description :

- 1. Black plastic film with multicolor printed

Note :

- 1. mg/kg = milligram per kilogram

**Qualities and standard of plastic**

Method: With reference to TIS 656:2556. Analysis was performed by ICP-MS.

Details	Result (1) (mg/kg)	Limit of Quantitative (mg/kg)	Permissible Limit (mg/kg)
Arsenic content***	Less than 0.5	0.5	2

Sample Description :

- 1. Black plastic film with multicolor printed

Note :

- 1. mg/kg = milligram per kilogram

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**TEST RESULTS**

**Qualities and standard of plastic**

Method: In-house method:LBTY-06370/5 and LBTY-06370/6 base on TIS 656:2556.

Details	Result (1) (mg/kg)	Permissible Limit (mg/kg)
Extracted substance by normal hexane***	2,747	26,000
Substance dissolve in xylene***	18,509	113,000

**Sample Description :**

1. Black plastic film with multicolor printed

**Note :**

1. mg/kg = milligram per kilogram

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**TEST RESULTS**

**Qualities and standard of dissemination**

Method: With reference to TIS 656:2556

Details	Test Condition <sup>^</sup>	Result (1) (mg/dm <sup>3</sup> )	Limit of Quantitative (mg/dm <sup>3</sup> )	Permissible Limit (mg/dm <sup>3</sup> )
Heavy metal (calculated as lead) in 4% concentrated acetic acid extraction***	30 minute at 60 degree C	Less than 1	--	1
Potassium permanganate used for reaction in water extraction***	30 minute at 60 degree C	Less than 1	1.0	5
Residue substances which is evaporate in 4% concentrated acetic acid***	30 minute at 60 degree C	Less than 3	3.0	15
Residue substances from volatile matters in normal heptane***	Room temperature (1 hr. at 25 degree C)	Less than 3	3.0	75 for Milk and Creamy Milk products

**Sample Description :**

1. Black plastic film with multicolor printed (inside)

**Note :**

1. mg/dm<sup>3</sup> = milligram per cubic decimeter
2. Degree C = degree Celsius

**Remark :**

1. <sup>^</sup> = In case of the use at temperature not higher than 100 degree Celsius

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**TEST RESULTS**

**Qualities and standard of dissemination**

Method: With reference to TIS 655-1: 2553

Details	Test Condition <sup>^</sup>	Result (1)	Permissible Limit
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 normal heptane***	Room temperature (1 hr. at 25 degree C)	Negative (See Note 2)	Negative

**Sample Description :**

1. Black plastic film with multicolor printed (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. <sup>^</sup> = In case of the use at temperature not higher than 100 degree Celsius

Remark: The test item(s) marked \*\*\* on test report is/are analyzed at SGS (Thailand) Limited, address: 41/16-20 and 41/23 Soi Rama III 59, Rama III road, Chongnonsee, Yannawa, Bangkok.

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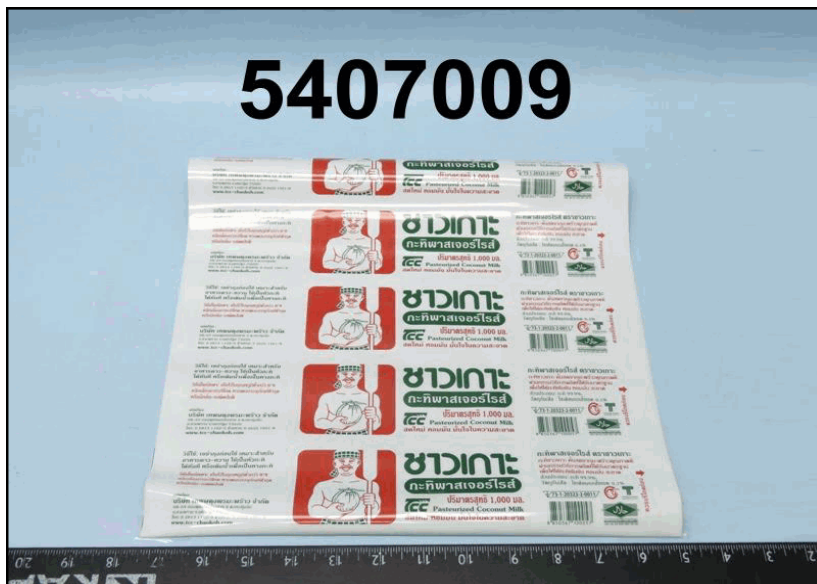
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**SAMPLE/ATTACHMENT PICTURE**



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

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